**APPENDIX A**

```fortran
c       A model of a ringdown signal with noise is created to mimic
c       experimental data obtained from
c       a photodector and preamplifier applied to an A to D convertor.
c       It is then fit with the new algorithm that subtracts a line
c       that is fit to the background before applying the standard
c       algorithm and compares that fit with one that simply uses a
c       constant for baseline subtraction. We use exponential decays
c       of tau=80 microseconds, choose a peak signal, add gaussian noise,
c       add a dc offset then add sixty Hz noise.  As in real experiments
c       the data is sampled every microsecond.
c       Then use one iteration of nonlinear fit and compare.

c       ( Note: Fortran 77, with a few exceptions, is used.  One exception
c       which is machine specific is the open statement. As an example open
c       (39,file='',status='new'). The file name which is left
c       blank allows its insertion at run time.) The text that follows an "!"
c       is a comment and not part of the source code.
c
        program model

        implicit none
        integer iy,i,max,k,j,jmax,jj,max2,flag
        parameter(k=2000,jj=500) ! k= number of data pts sampled in
c        microseconds, jj= number of repeats to form ensemble
        real*8 s(k),av(jj),amp,offst,ac,avtau0,x,ava,d,ss0,ss1,y
        real*8 s2(k),s3(k),m,b,chisq(jj),sum1,sum2,sum3,sumt,sumt0,bb,mmm
        real*8 sum4,sum5,t,a(jj),sigma,tau0(jj),sigmat0,dum,z,sigmaa,gamp
        real*4 urand,ss
        external function urand

        write(*,*) 'pick an integer for random number generator seed'

        read(*,*) iy

        flag=0   ! flag = 0 uses new algorithm, flag = 1 uses old

c get the data choose added 60hz noise etc.
        print*,'Enter the Gaussian white noise sdev in milivolts'
        read(*,*) gamp
        print*,'Enter signal amplitude'
        read(*,*) amp
        print*, 'Enter 60 Hz rms level'
        read(*,*) ac
        print*,'Enter the DC offset voltage'
        read(*,*) offst

        t=80.d0          !  decay time

        write(*,*) ' Name a result file'
        open (39,file='',status='new')
        write(39,*) 'The chosen values are:'
        write(39,*) ' random seed =',iy,', amp =',real(amp),'60Hz-rms =',
     *real(ac),'offset =',real(offst),'tau =',real(t)
        write(39,*)' tau         Amp        num points  sigma      reduced chisq
     *sigma-tau     sigma-amp     element num'
        write(39,*)' '
        ac=dsqrt(2.d0)*ac ! convert to amplitude,we entered rms value
550     continue
        j=0
500     continue

        j=1+j
```

```
        call getdata(offst,t,amp,ac,gamp,iy,s(1)) !produce the model data


c we want to fit the record s to the exponential, first using a weighted log transformation.
c-------------------------------------------------------------------------------
c get average value for the last 100 pts of each decay for base line determination.
c For these ponts signal has fallen many orders of magnitude below the noise.
        av(j)=0.d0
         do 35 i=k-99,k
         av(j)=av(j)+s(i)
35        continue
        av(j)=av(j)/100.d0



c-----------------------------------------------------------------------------
c        subtract base line from the data and find sigma from last 100 pts

        sigma=0.d0
          do 45 i=1,k
         s2(i)=s(i)-av(j)
            if (i.ge.k-99)then
            sigma=sigma+(s(i)-av(j))**2
            endif
45           continue

        sigma=sigma/(100.d0-1.d0) ! calculate sigma from baseline fluctuation
        sigma=sqrt(sigma)
c----------------------------------------------------------------------------
c    check for values of data below 1 sigma to obtain max ,highest numbered positve
c        non zero point


        i=1
        while (s2(i).ge.1.d0*sigma)
        max=i-1
        i=i+1
        enddo

c------------------------------------------------------------------------------
        if (flag.eq.1) goto 560  ! skip line fitting and subtraction if done once
c-----------------------------------------------------------------------------

c        fit straight line to data and subtract line from function rather than just a
c        constant

          if (k-2*max.1e.200) then
             max2=200
          else ! begin data for line at twice the time that exponential reaches noise
             max2=2*max ! at this point signal is as far below noise as it was above
                        !the noise initially.
          endif           ! but use no less than 200 pts for fit.
c-----------------------------------------------------------
c        algorithm for straight line fit   x -> i, y -> s(i) y=(mmm)x+bb

        sum1=0.d0
        sum2=0.d0
        sum3=0.d0
        sum4=0.d0
```

```fortran
         do 52 i=max2,k
         sum1=sum1+s(i)                ! sum(y)
         sum2=sum2+i                   ! sum(x)
         sum3=sum3+i**2          ! sum (x^2)
         sum4=sum4+i*s(i)        ! sum (xy)
52       continue
c        Npt's=(k- max2+1)
         d=(k- max2+1)*sum3-sum2**2
         if (d.eq.0.d0) then
         print*,'singular solution' ! make sure program doesn't crash if no solution
         pause
         endif
         mmm=((k- max2+1)*sum4-sum1*sum2)/d ! slope
         bb=(sum3*sum1-sum2*sum4)/d          ! intercept
c------------------------------------------------------------
c        now subtract line from the initial data
         do 54 i=1,k
         s2(i)=s(i)-bb-i*mmm     ! line  y = mmmx +bb
54       continue

          i=1
           while (s2(i).ge.1.d0*sigma)  ! find maximum value of i for log fit
           max=i-1
          i=i+1
          enddo
c-----------------------------------------------------------
560      continue
c        now do log transform and calculate slope, and intercept of line with weighted
c        average
c
c
         do 60 i=1,max
         s3(i)=dlog(s2(i)) ! convert to log of function
60       continue


         sum1=0.d0
         sum2=0.d0
         sum3=0.d0
         sum4=0.d0
         sum5=0.d0

         do 65  i=1,max         ! w=weight = prelog  y^2/sigma^2 = s2(i)^2/sigma^2
         sum1=sum1+s2(i)**2     ! sum( w)  common factor sigma^2 taken out from all terms
         sum2=sum2+i*s2(i)**2              !  sum(w*x)
         sum3=sum3+s2(i)**2*s3(i)          ! sum (w*y)
         sum4=sum4+i**2*s2(i)**2           ! sum (x^2*w)
         sum5=sum5+i*s2(i)**2*s3(i)        ! sum w*x*y
65       continue

         m=(sum1*sum5-sum3*sum2)/(sum1*sum4-sum2**2)
         b=(sum3/sum1)-(m*sum2/sum1)
c----------------------------------------------------------------

c        Also calculate reduced average chisq and sigma tau, see Bevington

         chisq(j)=0.d0
         do 75 i=1,max
         chisq(j)= chisq(j)+(s2(i)-dexp(b)*dexp(m*i))**2/((max-2)*(sigma**2))
75       continue
c---------------------------------------------------------------
         tau0(j)=-1.d0/m ! convert from rate to tau
```

```
        a(j)=dexp(b)
        x=sigma*t**2*dsqrt(sum1/(sum1*sum4-sum2**2)) ! from Bevington ,sigma t
        y=sigma*a(j)*dsqrt(sum4/(sum1*sum4-sum2**2))   ! page 108-9,sigma amp
c-----------------------------------------------------------------------

        write (39,*) real(tau0(j)),real(a(j)),'   ',max,'
      *',real(sigma),' ',real(chisq(j)),'      ',real(x),'        ', real(y),'  ',j


        jmax=j

        if (j.ge.jj) goto 100
        goto 500                        ! get new data to develop new ringdown for the ensemble
100     continue



c--------------------------------------------------------------------------

c       calculate ensemble averages


        sumt0=0.d0
        dum=0.d0
        sumt=0.d0

        do 120 j=1 , jmax !find average tau's, av's , a's, and chisq's
        sumt=sumt+a(j)
        sumt0=sumt0+tau0(j)
        dum=dum+chisq(j)
120     continue
        dum=dum/jmax ! average chisq

        avtau0=sumt0/jmax
        ava=sumt/jmax

        sigmaa=0.d0
        sigmat0=0.d0
        do 130 j=1,jmax                 !find sigma tau and sigma amp
        sigmat0=sigmat0+(tau0(j)-avtau0)**2
        sigmaa=sigmaa+(ava-a(j))**2
130     continue
        sigmaa=dsqrt(sigmaa/(jmax-1))
        sigmat0=dsqrt(sigmat0/(jmax-1))
        if(flag.eq.0) ss0=sigmat0
        if(flag.eq.1) ss1=sigmat0
        if(flag.eq.1) ss=real(ss1/ss0)
        write(39,*) 'average tau = ', real(avtau0),' sigma tau = ',
      *real(sigmat0),'average red chisq = ',real(dum)
        write(39,*) 'average amp = ',real(ava),' sigma amp = ',real(sigmaa)
        if (flag.eq.0) then
          flag=1 ! We now do it all over again using the simple constant baseline subtraction.
          write(39,*) ' '
          write(39,*) 'These next results just subract a constant and not a line to fit'
          write(39,*)' '

          z=urand(iy+17) ! call a random number with a new seed to cause sequence to reset
c       when iy is used again
c
c       This insures that the data used the second time around will be identical to that used in
c       the first fit.
c       In that way the comparison is exact between the two algorithms
C
          goto 550
```

```
          endif
          write(39,*) ' the squared ratio of sigma tau for the two data sets = ', ss**2
          close(39)

          end




          subroutine getdata(offst,t,amp,ac,gamp,iy,s)
c
c         Given the parameters for the dc offset, decay time, signal amplitude, 60 hz.
c         amplitude, rms
c         random gaussian noise, and random number seed, returns an array S(k) that represents
c         the ringdown voltage.
c
c

          implicit none
          integer iy,istat,i,k
          parameter(k=2000)
          real*8 offst,t,amp,ac,phi,gamp
          real*8 s(k),g(k),n0(k),y(k)
          real*4 gasdev,urand
          external function urand
          external function gasdev
          phi=dreal(urand(iy)*6.28) !the random phase of the 60Hz signal,a number between 0 and 2pi
          do 15 i=1,k
          g(i)=gamp*dreal(gasdev(iy))!gaussian noise sd=1,avg value =0 ,for k micro sec
          y(i)=amp*dexp(-dreal(i)/t)+ offst
          n0(i)=ac*dsin(0.000377d0*i+phi) !  sixty cycle with random phase for each ensemble member
          s(i)=g(i)+y(i)+n0(i)
15        continue
          return
          end


       function gasdev(iy)
c
c        generate normal gaussian random numbers sd=1 avg =0 (From "Numerical Recipes",Press et. al
c        Cambridge University Press 1986)
c
         external function urand
         real*4 urand,v1,v2,gasdev,gset,fac,r
         integer*4 iset,iy
        data iset/0/
       if (iset.eq.0) then
1         v1=2.*urand(iy)-1.
          v2=2.*urand(iy)-1.
          r=v1**2+v2**2
          if(r.ge.1.)go to 1
          fac=sqrt(-2.*log(r)/r)
          gset=v1*fac
          gasdev=v2*fac
          iset=1
       else
          gasdev=gset
          iset=0
       endif
       return
       end
```

```
      real function urand(iy)
c
c     Finds a psuedo random number.
c     the integer iy should be initialized to an arbitrary integer prior to the fist call
c     to urand. the calling program should not alter the value of iy between subsequent
c     calls to urand. values are returned between 0 and 1.
c
      integer ia,ic,itwo,m2,m,mic
      double precision halfm
      real s
      double precision datan,dsqrt
      data m2/0/,itwo/2/
      if(m2.ne.0) go to 20
c
c  if first reentry compute machine integer word length
c
      m=1
10    m2=m
      m=itwo*m2
      if (m.gt.m2) go to 10
      halfm=m2
c

      ia=8*idint(halfm*datan(1.d0)/8.d0)+5
      ic=2*idint(halfm*(0.5d0-dsqrt(3.d0)/6.d0))+1
      mic=(m2-ic)+m2
c
c s is a scale factor for converting to floating point
c
      s=0.5/halfm
c
c compute next random number
c
20    iy=iy*ia
      if (iy.gt.mic) iy=(iy-m2)-m2
      iy=iy+ic
      if(iy/2.gt.m2) iy=(iy-m2)-m2
      if(iy.lt.0)iy=(iy+m2)+m2
      urand=float(iy)*s
      return
      end
```

**APPENDIX B**

This is the compiled results using 500 independent ringdowns with the rms 60 Hz = to
the gaussian rms white noise. As you can see, as indicated at the  bottom of the table, the
squared ratio of the ensemble sigma tau is 19.77. That ratio shows that to achieve a given
precision in tau, one needs 19.77 times as much averaging using the standard  algorithm
comparted with the new one. We have repeated this run 10 times to develop a statistic on the
improvement for this set of parameters and the result was that the average improvement was
18.98 with a sdev = 1.42. As you might expect, if the 60 Hz signal gets smaller, the
improvement also gets smaller.  However, the signifcance of the result is that the time taken
to make a measurement of a given precision is reduced by that ratio.
(This is the output of the source code with one item that I added subsequently ,
the "gauss rms = 3.5).

The chosen values are:
random seed = 1 ,amp = 800.000 60Hz-rms = 3.50000 offset = 10.0000 tau =  80.0000 gauss rms = 3.5

| tau | Amp | num points | sigma | reduced chisq | sigma-tau | sigma-amp | element num |
|---|---|---|---|---|---|---|---|
| 80.3812 | 799.880 | 377 | 3.41363 | 1.06457 | 0.108180 | 0.771510 | 1 |
| 80.0478 | 800.545 | 370 | 3.47633 | 1.11195 | 0.110807 | 0.787399 | 2 |
| 80.5942 | 797.733 | 357 | 3.56602 | 0.901096 | 0.113038 | 0.805365 | 3 |
| 79.7959 | 800.223 | 364 | 3.47949 | 0.935880 | 0.112026 | 0.791412 | 4 |
| 80.2757 | 799.792 | 343 | 3.85445 | 0.910839 | 0.122796 | 0.872772 | 5 |
| 79.7136 | 800.013 | 356 | 3.64096 | 0.903653 | 0.117230 | 0.827762 | 6 |
| 80.1079 | 799.414 | 328 | 3.66295 | 0.902719 | 0.117561 | 0.831779 | 7 |
| 80.4085 | 798.814 | 369 | 3.40928 | 1.09774 | 0.108281 | 0.770851 | 8 |
| 79.9620 | 798.997 | 354 | 3.46550 | 0.919112 | 0.111112 | 0.786289 | 9 |
| 79.9450 | 799.908 | 339 | 3.58053 | 0.859031 | 0.115175 | 0.814045 | 10 |
| 80.5768 | 799.571 | 369 | 3.49413 | 0.977574 | 0.110215 | 0.788068 | 11 |
| 80.3235 | 799.982 | 367 | 3.42647 | 1.11993 | 0.108919 | 0.775385 | 12 |
| 80.1065 | 799.776 | 364 | 3.68315 | 0.979039 | 0.117587 | 0.834578 | 13 |
| 79.8826 | 797.612 | 355 | 3.67865 | 0.896638 | 0.118441 | 0.835436 | 14 |
| 80.1940 | 800.994 | 342 | 3.32195 | 1.16005 | 0.105765 | 0.752381 | 15 |
| 80.1189 | 799.735 | 368 | 3.66811 | 0.845112 | 0.117201 | 0.831674 | 16 |
| 80.2248 | 797.985 | 370 | 3.66111 | 0.990751 | 0.116966 | 0.829375 | 17 |
| 80.2534 | 798.529 | 337 | 3.09522 | 1.33661 | 9.911115E-02 | 0.702039 | 18 |
| 80.6539 | 798.334 | 377 | 3.34951 | 1.02779 | 0.105757 | 0.755472 | 19 |
| 80.0661 | 798.940 | 352 | 3.36445 | 1.05537 | 0.107878 | 0.763572 | 20 |
| 80.1926 | 799.261 | 344 | 3.70351 | 0.957610 | 0.118209 | 0.838947 | 21 |
| 79.7549 | 800.642 | 390 | 3.43053 | 0.941505 | 0.109912 | 0.778532 | 22 |
| 79.9710 | 799.103 | 360 | 3.16224 | 1.03390 | 0.101494 | 0.717973 | 23 |
| 80.2389 | 799.133 | 352 | 3.70208 | 0.869751 | 0.118023 | 0.838264 | 24 |
| 80.3320 | 799.336 | 362 | 3.48165 | 0.898230 | 0.110457 | 0.786854 | 25 |
| 80.0478 | 799.761 | 357 | 3.55346 | 0.874637 | 0.113643 | 0.805859 | 26 |
| 80.1229 | 801.448 | 358 | 3.57680 | 0.925075 | 0.113715 | 0.809729 | 27 |
| 79.8343 | 799.408 | 362 | 3.52717 | 0.915940 | 0.113437 | 0.801489 | 28 |
| 80.4072 | 800.646 | 345 | 3.23790 | 1.24147 | 0.102770 | 0.732525 | 29 |
| 80.2135 | 798.802 | 362 | 3.46311 | 1.02765 | 0.110439 | 0.784080 | 30 |
| 79.9797 | 798.023 | 347 | 3.59251 | 0.993194 | 0.115368 | 0.815205 | 31 |
| 80.0015 | 800.016 | 335 | 3.17675 | 1.31002 | 0.101899 | 0.721247 | 32 |
| 80.2739 | 799.292 | 370 | 2.80468 | 1.36614 | 8.940282E-02 | 0.635305 | 33 |
| 80.2325 | 799.895 | 355 | 3.18023 | 1.28376 | 0.101511 | 0.720895 | 34 |
| 80.1239 | 799.947 | 357 | 4.01733 | 0.783859 | 0.128420 | 0.911108 | 35 |
| 80.3681 | 798.786 | 359 | 3.29321 | 1.11531 | 0.104797 | 0.745206 | 36 |
| 80.1854 | 797.797 | 345 | 3.85224 | 0.710844 | 0.123417 | 0.873547 | 37 |
| 80.4123 | 799.192 | 352 | 3.47029 | 1.01612 | 0.110295 | 0.784959 | 38 |
| 80.0014 | 799.991 | 384 | 3.18610 | 1.05959 | 0.101856 | 0.722510 | 39 |
| 80.1084 | 799.812 | 348 | 3.39072 | 1.05840 | 0.108519 | 0.769263 | 40 |
| 80.1952 | 800.702 | 354 | 3.52682 | 1.07649 | 0.112333 | 0.798850 | 41 |
| 80.3925 | 798.095 | 353 | 3.50967 | 0.866208 | 0.111681 | 0.793859 | 42 |
| 80.0717 | 798.897 | 354 | 3.22297 | 1.40809 | 0.103220 | 0.730957 | 43 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 80.0652 | 799.503 | 361 | 3.01224 | 1.36238 | 9.651958E-02 | 0.683667 | 44 |
| 79.9924 | 799.581 | 348 | 3.52276 | 0.902304 | 0.113262 | 0.800741 | 45 |
| 80.2594 | 799.905 | 360 | 3.80231 | 0.832782 | 0.120938 | 0.860455 | 46 |
| 79.8885 | 798.848 | 360 | 3.34321 | 1.14142 | 0.107473 | 0.759256 | 47 |
| 79.7865 | 799.934 | 362 | 3.80141 | 0.846560 | 0.122173 | 0.863599 | 48 |
| 80.0431 | 798.649 | 356 | 3.69423 | 0.826237 | 0.118471 | 0.838282 | 49 |
| 80.1002 | 798.542 | 357 | 3.65684 | 1.00040 | 0.117087 | 0.829213 | 50 |
| 80.1506 | 799.860 | 350 | 3.42042 | 1.25200 | 0.109397 | 0.775831 | 51 |
| 79.8712 | 799.471 | 368 | 3.43632 | 0.969244 | 0.109895 | 0.778789 | 52 |
| 80.2386 | 800.389 | 373 | 3.52289 | 1.00298 | 0.111996 | 0.797288 | 53 |
| 80.6664 | 800.708 | 376 | 3.45900 | 0.982347 | 0.108635 | 0.779197 | 54 |
| 80.2141 | 799.533 | 354 | 3.50310 | 1.00037 | 0.111651 | 0.793270 | 55 |
| 80.1684 | 799.886 | 376 | 3.57510 | 0.800629 | 0.113680 | 0.808862 | 56 |
| 79.8979 | 798.265 | 379 | 3.53829 | 0.979120 | 0.113534 | 0.802698 | 57 |
| 79.8790 | 801.421 | 328 | 3.56524 | 1.12472 | 0.114764 | 0.811164 | 58 |
| 80.0871 | 800.029 | 354 | 3.43421 | 0.927179 | 0.109803 | 0.778901 | 59 |
| 80.2119 | 798.231 | 367 | 3.36987 | 1.23473 | 0.107429 | 0.762613 | 60 |
| 79.8350 | 798.362 | 366 | 3.41828 | 0.922450 | 0.109908 | 0.776138 | 61 |
| 79.7611 | 798.936 | 358 | 3.38721 | 1.12772 | 0.109312 | 0.770527 | 62 |
| 80.0349 | 800.326 | 341 | 3.67013 | 0.884792 | 0.117623 | 0.833229 | 63 |
| 80.2091 | 798.672 | 350 | 3.45391 | 1.06840 | 0.110298 | 0.782376 | 64 |
| 80.1261 | 798.263 | 354 | 3.90308 | 0.721050 | 0.124728 | 0.884100 | 65 |
| 79.8974 | 797.609 | 363 | 3.26460 | 1.20106 | 0.105494 | 0.742836 | 66 |
| 80.2315 | 800.633 | 383 | 3.38483 | 0.997836 | 0.107483 | 0.765750 | 67 |
| 80.2131 | 800.280 | 345 | 3.77116 | 0.829861 | 0.120007 | 0.853593 | 68 |
| 80.3054 | 800.356 | 357 | 3.35922 | 1.16718 | 0.106775 | 0.760220 | 69 |
| 80.2076 | 800.663 | 360 | 3.49159 | 0.919786 | 0.111174 | 0.790863 | 70 |
| 80.0741 | 799.734 | 345 | 3.46358 | 0.924962 | 0.110818 | 0.785567 | 71 |
| 80.2760 | 799.886 | 348 | 3.01993 | 1.25448 | 9.640564E-02 | 0.684668 | 72 |
| 80.0766 | 799.373 | 359 | 3.71413 | 0.868135 | 0.118555 | 0.841234 | 73 |
| 80.0755 | 799.098 | 365 | 3.93837 | 0.774420 | 0.125897 | 0.892612 | 74 |
| 80.1813 | 798.997 | 350 | 3.57193 | 1.00185 | 0.114276 | 0.809983 | 75 |
| 79.9586 | 800.785 | 336 | 3.40085 | 1.07883 | 0.109255 | 0.773020 | 76 |
| 79.9223 | 798.486 | 364 | 3.99356 | 0.774810 | 0.128520 | 0.907451 | 77 |
| 79.8370 | 800.414 | 354 | 3.59938 | 0.967544 | 0.115503 | 0.817369 | 78 |
| 79.9985 | 799.242 | 345 | 3.15828 | 1.16751 | 0.101429 | 0.717248 | 79 |
| 79.8424 | 799.157 | 378 | 3.46142 | 0.939634 | 0.111214 | 0.786120 | 80 |
| 80.1373 | 799.180 | 334 | 3.48600 | 1.06180 | 0.111925 | 0.791741 | 81 |
| 79.9770 | 799.289 | 369 | 3.49498 | 0.928750 | 0.111829 | 0.792391 | 82 |
| 80.0688 | 799.486 | 339 | 3.55179 | 0.957820 | 0.113815 | 0.805925 | 83 |
| 79.9244 | 798.796 | 361 | 3.26039 | 1.01545 | 0.105022 | 0.741353 | 84 |
| 79.9133 | 800.601 | 363 | 3.09048 | 1.28334 | 9.904207E-02 | 0.701632 | 85 |
| 80.3574 | 798.826 | 391 | 3.26436 | 1.12227 | 0.103562 | 0.737654 | 86 |
| 79.9560 | 799.151 | 357 | 3.51752 | 0.918528 | 0.112976 | 0.798859 | 87 |
| 80.1137 | 799.516 | 364 | 3.73919 | 0.776793 | 0.119225 | 0.846694 | 88 |
| 79.8712 | 800.466 | 326 | 3.26240 | 1.17546 | 0.105307 | 0.742847 | 89 |
| 80.0680 | 796.866 | 352 | 3.40169 | 1.08475 | 0.109339 | 0.771881 | 90 |
| 80.2709 | 799.014 | 361 | 3.07152 | 1.53299 | 9.801567E-02 | 0.695808 | 91 |
| 80.2308 | 800.036 | 347 | 3.41803 | 1.14087 | 0.108957 | 0.774247 | 92 |
| 79.9246 | 800.339 | 345 | 3.97266 | 0.789615 | 0.127333 | 0.901747 | 93 |
| 80.0817 | 800.167 | 371 | 3.21134 | 1.13721 | 0.102573 | 0.728102 | 94 |
| 79.9947 | 799.475 | 348 | 3.30803 | 1.03446 | 0.105975 | 0.750462 | 95 |
| 80.4134 | 800.011 | 356 | 3.68386 | 0.878181 | 0.116878 | 0.833110 | 96 |
| 80.0226 | 799.876 | 346 | 3.55499 | 0.937570 | 0.114267 | 0.808091 | 97 |
| 80.1604 | 798.492 | 347 | 3.40213 | 1.01279 | 0.108825 | 0.771101 | 98 |
| 80.3452 | 799.875 | 339 | 3.32803 | 1.03109 | 0.105995 | 0.753671 | 99 |
| 80.4588 | 799.408 | 385 | 2.86372 | 1.34531 | 9.065109E-02 | 0.646828 | 100 |
| 80.0893 | 799.326 | 350 | 3.50891 | 0.923845 | 0.112378 | 0.796133 | 101 |
| 80.3195 | 800.418 | 376 | 3.37414 | 1.18182 | 0.107061 | 0.763036 | 102 |
| 79.8173 | 799.289 | 345 | 3.28836 | 1.21588 | 0.105845 | 0.747181 | 103 |
| 80.0080 | 799.184 | 356 | 4.03239 | 0.735519 | 0.129290 | 0.915096 | 104 |
| 80.2417 | 798.588 | 363 | 3.41678 | 0.963055 | 0.109134 | 0.774241 | 105 |
| 80.4613 | 797.833 | 371 | 3.35658 | 1.09554 | 0.106599 | 0.758522 | 106 |

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|---|---|---|---|---|---|---|---|
| 80.1971 | 800.698 | 362 | 3.97213 | 0.673680 | 0.126390 | 0.899484 | 107 |
| 79.9672 | 799.552 | 375 | 4.04755 | 0.711646 | 0.129491 | 0.917804 | 108 |
| 79.8965 | 799.946 | 373 | 3.49178 | 0.948453 | 0.111878 | 0.792331 | 109 |
| 80.1013 | 799.490 | 338 | 3.63289 | 0.985934 | 0.116528 | 0.824854 | 110 |
| 80.1379 | 798.471 | 355 | 3.45349 | 1.04479 | 0.110547 | 0.783037 | 111 |
| 80.1547 | 798.559 | 354 | 3.43704 | 0.998915 | 0.109979 | 0.779259 | 112 |
| 80.0013 | 799.403 | 336 | 4.15877 | 0.781624 | 0.133604 | 0.944548 | 113 |
| 80.4955 | 799.609 | 354 | 3.50197 | 0.998408 | 0.111226 | 0.792327 | 114 |
| 80.0807 | 800.930 | 362 | 3.29082 | 1.11158 | 0.104911 | 0.745734 | 115 |
| 80.2495 | 799.089 | 357 | 3.24327 | 1.24364 | 0.103463 | 0.734632 | 116 |
| 80.3853 | 798.861 | 361 | 3.41634 | 1.07044 | 0.108625 | 0.772792 | 117 |
| 80.2917 | 799.447 | 361 | 3.35988 | 0.983118 | 0.107280 | 0.761737 | 118 |
| 80.3936 | 799.282 | 373 | 3.35197 | 1.15466 | 0.106351 | 0.757648 | 119 |
| 80.2886 | 799.091 | 370 | 3.37531 | 0.963922 | 0.107588 | 0.764457 | 120 |
| 80.1945 | 798.672 | 354 | 3.40903 | 1.11263 | 0.108916 | 0.772433 | 121 |
| 79.9855 | 797.691 | 363 | 3.25762 | 1.07966 | 0.104453 | 0.738610 | 122 |
| 80.0114 | 798.950 | 364 | 3.87417 | 0.760721 | 0.123927 | 0.878184 | 123 |
| 80.3063 | 799.627 | 361 | 3.37160 | 1.14493 | 0.107260 | 0.763041 | 124 |
| 80.3963 | 798.248 | 334 | 3.44604 | 1.06082 | 0.110018 | 0.780571 | 125 |
| 79.9459 | 798.613 | 355 | 3.29820 | 1.09109 | 0.106162 | 0.749562 | 126 |
| 80.3398 | 799.468 | 356 | 3.50939 | 0.875796 | 0.111616 | 0.794138 | 127 |
| 79.8753 | 800.949 | 337 | 3.82977 | 0.849377 | 0.122967 | 0.870165 | 128 |
| 80.2055 | 799.901 | 363 | 3.62650 | 0.821042 | 0.115635 | 0.821681 | 129 |
| 79.9158 | 798.811 | 333 | 4.00005 | 0.696884 | 0.128998 | 0.909737 | 130 |
| 80.1227 | 799.700 | 361 | 3.49760 | 0.958397 | 0.111757 | 0.792952 | 131 |
| 80.4232 | 798.802 | 375 | 3.61614 | 0.908066 | 0.114433 | 0.816138 | 132 |
| 79.9672 | 801.494 | 356 | 4.19179 | 0.727101 | 0.133900 | 0.950719 | 133 |
| 79.8098 | 799.278 | 368 | 3.09071 | 1.32669 | 9.959607E-02 | 0.702869 | 134 |
| 79.7279 | 799.992 | 351 | 3.63781 | 1.02074 | 0.117480 | 0.828212 | 135 |
| 80.1007 | 799.480 | 354 | 3.63860 | 0.935682 | 0.116372 | 0.825082 | 136 |
| 80.0743 | 799.763 | 356 | 3.38292 | 1.11374 | 0.108107 | 0.766845 | 137 |
| 79.9504 | 800.408 | 344 | 3.29516 | 1.19130 | 0.105906 | 0.749065 | 138 |
| 80.0445 | 798.414 | 348 | 3.65670 | 0.970489 | 0.117435 | 0.830167 | 139 |
| 80.0036 | 799.960 | 355 | 3.04643 | 1.14110 | 9.761681E-02 | 0.691533 | 140 |
| 80.3137 | 800.907 | 349 | 3.20712 | 1.21511 | 0.102086 | 0.726563 | 141 |
| 80.2524 | 799.153 | 350 | 3.10875 | 1.22172 | 9.929992E-02 | 0.704628 | 142 |
| 79.8423 | 799.015 | 350 | 3.80241 | 0.824126 | 0.122436 | 0.864269 | 143 |
| 79.8642 | 799.948 | 354 | 3.81213 | 0.797688 | 0.122506 | 0.866140 | 144 |
| 79.9651 | 800.733 | 352 | 3.35303 | 1.06354 | 0.106993 | 0.759766 | 145 |
| 80.0994 | 798.904 | 344 | 3.65192 | 0.855422 | 0.117070 | 0.828710 | 146 |
| 80.5483 | 798.484 | 348 | 3.52869 | 1.01567 | 0.112164 | 0.798163 | 147 |
| 80.3092 | 798.600 | 351 | 3.57378 | 1.04651 | 0.113973 | 0.809217 | 148 |
| 80.1074 | 799.673 | 372 | 3.01788 | 1.41932 | 9.653959E-02 | 0.684554 | 149 |
| 79.9506 | 799.680 | 362 | 3.46349 | 0.948307 | 0.111125 | 0.786481 | 150 |
| 79.6785 | 799.307 | 333 | 4.01379 | 0.662497 | 0.129991 | 0.914434 | 151 |
| 80.0217 | 800.377 | 339 | 3.38815 | 1.10900 | 0.108575 | 0.769163 | 152 |
| 80.2539 | 799.548 | 358 | 3.52523 | 0.852781 | 0.112204 | 0.797888 | 153 |
| 80.1468 | 799.073 | 336 | 3.38694 | 1.13095 | 0.108360 | 0.767863 | 154 |
| 80.2278 | 799.444 | 346 | 3.74644 | 0.813111 | 0.119554 | 0.848853 | 155 |
| 80.3125 | 799.058 | 361 | 3.86145 | 0.712568 | 0.122736 | 0.873294 | 156 |
| 80.2915 | 798.912 | 353 | 3.34791 | 0.992097 | 0.106633 | 0.757755 | 157 |
| 79.9882 | 800.362 | 363 | 3.56890 | 0.902942 | 0.114174 | 0.809653 | 158 |
| 80.5235 | 799.680 | 378 | 3.48646 | 0.985824 | 0.110167 | 0.786987 | 159 |
| 79.8685 | 798.646 | 362 | 3.61220 | 0.867179 | 0.116064 | 0.820053 | 160 |
| 79.8287 | 801.701 | 349 | 3.12919 | 1.16289 | 0.100470 | 0.711375 | 161 |
| 79.9150 | 799.174 | 337 | 3.25103 | 1.17398 | 0.104653 | 0.738910 | 162 |
| 80.3207 | 799.389 | 380 | 3.85350 | 0.858115 | 0.121924 | 0.869693 | 163 |
| 80.2104 | 798.899 | 342 | 3.53076 | 1.11972 | 0.113106 | 0.801099 | 164 |
| 80.2187 | 799.607 | 340 | 3.31195 | 1.02505 | 0.105881 | 0.751064 | 165 |
| 80.1014 | 799.632 | 354 | 3.52722 | 1.03961 | 0.112591 | 0.799055 | 166 |
| 80.3281 | 798.421 | 367 | 3.02959 | 1.37408 | 9.654789E-02 | 0.685787 | 167 |
| 80.3572 | 800.046 | 371 | 3.33139 | 1.14472 | 0.105752 | 0.753477 | 168 |
| 80.0293 | 799.630 | 325 | 3.91158 | 0.745621 | 0.125918 | 0.889404 | 169 |

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|---|---|---|---|---|---|---|---|
| 80.2242 | 799.314 | 361 | 4.00645 | 0.796298 | 0.127985 | 0.908236 | 170 |
| 80.1216 | 799.961 | 360 | 3.91975 | 0.740766 | 0.125019 | 0.887958 | 171 |
| 80.5222 | 799.726 | 369 | 3.52172 | 1.12410 | 0.111441 | 0.795491 | 172 |
| 80.1881 | 799.113 | 358 | 3.56151 | 0.962995 | 0.113503 | 0.806203 | 173 |
| 80.1267 | 800.550 | 352 | 3.37374 | 0.937631 | 0.107643 | 0.764731 | 174 |
| 80.3625 | 799.473 | 352 | 3.42615 | 1.07211 | 0.109085 | 0.775709 | 175 |
| 80.0912 | 800.525 | 336 | 3.60409 | 0.947628 | 0.115103 | 0.817015 | 176 |
| 79.9588 | 799.288 | 358 | 3.84930 | 0.819585 | 0.123536 | 0.873935 | 177 |
| 79.9985 | 798.610 | 363 | 3.35392 | 1.10331 | 0.107686 | 0.761451 | 178 |
| 80.1925 | 800.689 | 373 | 4.06625 | 0.827805 | 0.129127 | 0.919743 | 179 |
| 80.4065 | 798.209 | 362 | 3.55319 | 1.06446 | 0.112951 | 0.803317 | 180 |
| 79.9635 | 799.278 | 373 | 3.20959 | 1.19371 | 0.102698 | 0.727627 | 181 |
| 80.1160 | 800.031 | 367 | 3.83960 | 0.837351 | 0.122659 | 0.870617 | 182 |
| 80.1397 | 799.645 | 341 | 3.55636 | 0.879970 | 0.113769 | 0.806624 | 183 |
| 79.9520 | 799.510 | 353 | 3.62475 | 0.901947 | 0.116337 | 0.823031 | 184 |
| 80.5369 | 798.878 | 379 | 3.49406 | 1.04614 | 0.110462 | 0.788507 | 185 |
| 80.3356 | 799.064 | 369 | 3.55063 | 0.860228 | 0.112727 | 0.802642 | 186 |
| 80.0562 | 800.647 | 344 | 3.50809 | 0.985287 | 0.112134 | 0.795656 | 187 |
| 79.7510 | 799.229 | 348 | 3.55637 | 0.823368 | 0.114781 | 0.809137 | 188 |
| 80.1875 | 800.770 | 338 | 3.64085 | 1.00139 | 0.116126 | 0.825149 | 189 |
| 80.1365 | 799.994 | 343 | 3.46509 | 1.03564 | 0.110499 | 0.784808 | 190 |
| 80.0227 | 800.711 | 346 | 3.59470 | 0.943969 | 0.115111 | 0.816048 | 191 |
| 79.8800 | 799.584 | 361 | 3.89307 | 0.827839 | 0.125185 | 0.884759 | 192 |
| 79.9505 | 798.776 | 356 | 3.56023 | 0.975333 | 0.114576 | 0.809102 | 193 |
| 80.0684 | 798.481 | 362 | 3.32602 | 1.21109 | 0.106693 | 0.754813 | 194 |
| 80.5123 | 799.293 | 347 | 3.32482 | 1.10577 | 0.105447 | 0.751469 | 195 |
| 79.9467 | 798.399 | 355 | 3.45290 | 0.936552 | 0.110983 | 0.784074 | 196 |
| 80.1921 | 799.587 | 357 | 3.43666 | 0.944387 | 0.109471 | 0.777981 | 197 |
| 80.0604 | 797.679 | 354 | 3.45935 | 1.08767 | 0.111126 | 0.785208 | 198 |
| 80.1976 | 799.448 | 360 | 3.52424 | 0.836409 | 0.112484 | 0.798644 | 199 |
| 79.9503 | 798.633 | 366 | 3.17271 | 1.17791 | 0.101864 | 0.720225 | 200 |
| 80.3002 | 799.229 | 339 | 3.80128 | 0.911433 | 0.121300 | 0.861135 | 201 |
| 79.8856 | 801.061 | 348 | 2.98153 | 1.50719 | 9.568289E-02 | 0.677410 | 202 |
| 79.8446 | 800.228 | 347 | 3.23746 | 1.24558 | 0.104115 | 0.735884 | 203 |
| 80.1638 | 799.588 | 350 | 3.41009 | 1.15706 | 0.108943 | 0.772991 | 204 |
| 80.0468 | 799.828 | 330 | 3.60909 | 0.868364 | 0.116142 | 0.820754 | 205 |
| 79.9912 | 801.465 | 371 | 3.53656 | 0.968260 | 0.112639 | 0.801088 | 206 |
| 80.0607 | 798.089 | 346 | 3.50601 | 1.01929 | 0.112581 | 0.795723 | 207 |
| 79.7555 | 798.343 | 349 | 3.31086 | 1.31358 | 0.107087 | 0.753586 | 208 |
| 80.2013 | 797.336 | 348 | 2.80942 | 1.53865 | 8.998625E-02 | 0.636852 | 209 |
| 80.1236 | 799.037 | 363 | 3.16942 | 1.30262 | 0.101306 | 0.718336 | 210 |
| 80.1172 | 800.047 | 353 | 3.57722 | 0.930397 | 0.114175 | 0.810613 | 211 |
| 80.1367 | 800.506 | 348 | 3.46785 | 0.988212 | 0.110754 | 0.786323 | 212 |
| 80.1690 | 799.076 | 345 | 3.75842 | 0.908447 | 0.120420 | 0.852888 | 213 |
| 80.2654 | 800.605 | 338 | 3.43773 | 0.898206 | 0.109652 | 0.779303 | 214 |
| 79.8936 | 798.872 | 319 | 3.77373 | 0.923873 | 0.122176 | 0.859647 | 215 |
| 79.9508 | 799.459 | 355 | 3.61268 | 0.796753 | 0.115817 | 0.819847 | 216 |
| 80.4873 | 798.508 | 332 | 3.94961 | 0.768052 | 0.126016 | 0.894776 | 217 |
| 80.3746 | 799.440 | 365 | 3.49376 | 0.916445 | 0.110892 | 0.789897 | 218 |
| 79.9239 | 799.908 | 360 | 3.54232 | 0.965268 | 0.113455 | 0.803667 | 219 |
| 80.0974 | 797.903 | 350 | 3.67880 | 0.968546 | 0.118025 | 0.834645 | 220 |
| 80.1883 | 800.372 | 367 | 3.31614 | 1.06732 | 0.105531 | 0.750787 | 221 |
| 79.9621 | 800.882 | 377 | 3.52479 | 0.943318 | 0.112252 | 0.798009 | 222 |
| 79.9954 | 799.145 | 360 | 3.36580 | 1.14808 | 0.108044 | 0.764218 | 223 |
| 80.2519 | 798.843 | 361 | 3.75436 | 0.826454 | 0.119236 | 0.848409 | 224 |
| 80.4390 | 799.727 | 340 | 3.46418 | 1.06616 | 0.109927 | 0.783165 | 225 |
| 80.0357 | 799.225 | 339 | 3.20139 | 1.13606 | 0.102852 | 0.727199 | 226 |
| 80.3948 | 799.444 | 371 | 3.82232 | 0.840642 | 0.121476 | 0.864808 | 227 |
| 80.2717 | 799.349 | 367 | 3.58056 | 0.981030 | 0.114067 | 0.810751 | 228 |
| 80.0780 | 800.157 | 356 | 3.29253 | 1.15536 | 0.105216 | 0.746548 | 229 |
| 80.1913 | 799.193 | 367 | 3.51899 | 1.13343 | 0.112016 | 0.796116 | 230 |
| 80.0578 | 798.719 | 319 | 3.66078 | 0.965219 | 0.118090 | 0.832699 | 231 |
| 80.4753 | 798.484 | 359 | 3.48746 | 0.906707 | 0.110773 | 0.788571 | 232 |

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|---|---|---|---|---|---|---|---|
| 80.0214 | 797.673 | 383 | 2.97421 | 1.32880 | 9.549629E-02 | 0.674989 | 233 |
| 80.1266 | 800.086 | 352 | 3.44730 | 1.01789 | 0.110191 | 0.781818 | 234 |
| 80.1023 | 798.487 | 357 | 3.33014 | 1.01865 | 0.106547 | 0.754843 | 235 |
| 80.3082 | 800.608 | 375 | 3.56412 | 1.04846 | 0.113124 | 0.806251 | 236 |
| 80.1828 | 800.000 | 368 | 3.09868 | 1.37254 | 9.867508E-02 | 0.701611 | 237 |
| 80.1891 | 800.227 | 359 | 2.94595 | 1.54548 | 9.385164E-02 | 0.667168 | 238 |
| 80.3105 | 798.343 | 334 | 3.77792 | 0.839863 | 0.120691 | 0.855921 | 239 |
| 79.7822 | 799.811 | 344 | 3.58391 | 0.884939 | 0.115595 | 0.815443 | 240 |
| 80.1136 | 799.091 | 343 | 3.76397 | 0.900334 | 0.120527 | 0.853732 | 241 |
| 79.7719 | 799.403 | 356 | 3.17456 | 1.16745 | 0.102384 | 0.722186 | 242 |
| 79.9987 | 799.922 | 365 | 3.24906 | 0.953750 | 0.103822 | 0.736532 | 243 |
| 79.7523 | 799.771 | 363 | 3.33658 | 1.13796 | 0.107744 | 0.759686 | 244 |
| 80.3514 | 798.241 | 359 | 3.09641 | 1.29815 | 9.855807E-02 | 0.700478 | 245 |
| 79.9489 | 799.601 | 362 | 3.49294 | 0.767982 | 0.112081 | 0.793232 | 246 |
| 80.2906 | 798.828 | 325 | 3.54521 | 1.07425 | 0.113695 | 0.804764 | 247 |
| 80.1758 | 800.817 | 360 | 3.79612 | 0.981569 | 0.120695 | 0.859135 | 248 |
| 80.1410 | 798.771 | 361 | 3.35521 | 1.16733 | 0.107332 | 0.760691 | 249 |
| 80.0189 | 800.610 | 334 | 3.81045 | 0.860614 | 0.122194 | 0.865385 | 250 |
| 80.0550 | 799.316 | 345 | 3.64529 | 0.918905 | 0.116977 | 0.827692 | 251 |
| 80.5289 | 798.911 | 360 | 3.80559 | 0.941829 | 0.120612 | 0.859755 | 252 |
| 79.7483 | 800.065 | 345 | 3.38932 | 0.886866 | 0.109169 | 0.770754 | 253 |
| 80.1120 | 799.524 | 346 | 3.79132 | 0.891508 | 0.121558 | 0.860731 | 254 |
| 79.8844 | 798.901 | 352 | 3.65578 | 0.889340 | 0.117930 | 0.831731 | 255 |
| 80.2116 | 799.190 | 369 | 3.36764 | 0.959591 | 0.107524 | 0.763283 | 256 |
| 80.0020 | 800.394 | 374 | 3.52293 | 0.986308 | 0.112309 | 0.797926 | 257 |
| 79.8608 | 799.390 | 334 | 3.21059 | 1.17017 | 0.103352 | 0.729640 | 258 |
| 79.7669 | 800.802 | 355 | 3.75453 | 0.812089 | 0.120583 | 0.853048 | 259 |
| 79.9965 | 800.836 | 367 | 3.64788 | 0.851226 | 0.116370 | 0.826676 | 260 |
| 80.3855 | 799.640 | 340 | 3.35509 | 1.01719 | 0.106586 | 0.758828 | 261 |
| 80.1080 | 799.237 | 365 | 3.32480 | 1.16134 | 0.106063 | 0.752917 | 262 |
| 80.1787 | 798.387 | 362 | 3.49554 | 0.978907 | 0.111749 | 0.792168 | 263 |
| 79.9191 | 800.053 | 346 | 3.58325 | 0.963764 | 0.115295 | 0.814794 | 264 |
| 79.9919 | 799.081 | 373 | 3.55060 | 1.04485 | 0.113948 | 0.806095 | 265 |
| 79.8530 | 800.942 | 339 | 3.66153 | 0.844671 | 0.117664 | 0.832344 | 266 |
| 80.3191 | 798.247 | 373 | 3.72867 | 0.791136 | 0.118661 | 0.843450 | 267 |
| 80.1877 | 800.227 | 371 | 3.54292 | 0.939071 | 0.113077 | 0.803200 | 268 |
| 80.0612 | 799.027 | 352 | 3.36016 | 1.16250 | 0.107734 | 0.762511 | 269 |
| 80.2392 | 800.036 | 331 | 3.77801 | 0.936370 | 0.121013 | 0.857731 | 270 |
| 80.2934 | 799.378 | 359 | 4.11210 | 0.825963 | 0.130989 | 0.931097 | 271 |
| 79.8614 | 800.267 | 347 | 3.83440 | 0.822427 | 0.123190 | 0.871213 | 272 |
| 80.3193 | 799.055 | 373 | 2.84976 | 1.45170 | 9.041621E-02 | 0.643930 | 273 |
| 80.2289 | 800.195 | 367 | 3.92777 | 0.706740 | 0.125120 | 0.889808 | 274 |
| 80.1711 | 799.942 | 342 | 3.60703 | 1.00047 | 0.115453 | 0.818476 | 275 |
| 80.1858 | 799.348 | 355 | 4.28248 | 0.768287 | 0.136613 | 0.969940 | 276 |
| 80.2100 | 800.195 | 369 | 3.30165 | 1.09459 | 0.104886 | 0.746769 | 277 |
| 79.8926 | 799.143 | 354 | 3.39268 | 1.03960 | 0.109121 | 0.770909 | 278 |
| 79.7170 | 799.787 | 371 | 3.77671 | 0.846563 | 0.121820 | 0.859412 | 279 |
| 80.3400 | 799.724 | 350 | 3.53123 | 0.998146 | 0.112433 | 0.799581 | 280 |
| 80.4015 | 798.369 | 335 | 3.27750 | 1.04057 | 0.104545 | 0.742160 | 281 |
| 79.6615 | 799.426 | 363 | 3.22732 | 1.15809 | 0.103969 | 0.733565 | 282 |
| 80.2074 | 799.872 | 385 | 3.63390 | 0.923675 | 0.115652 | 0.822645 | 283 |
| 80.0367 | 798.757 | 371 | 3.35263 | 1.08983 | 0.107494 | 0.760782 | 284 |
| 80.1911 | 799.213 | 348 | 3.76516 | 0.957851 | 0.120591 | 0.854426 | 285 |
| 80.2145 | 800.068 | 357 | 3.31116 | 1.18622 | 0.105521 | 0.750004 | 286 |
| 80.1323 | 799.239 | 379 | 3.17552 | 1.12255 | 0.101116 | 0.718598 | 287 |
| 79.8382 | 800.291 | 368 | 3.03559 | 1.16951 | 9.737249E-02 | 0.689309 | 288 |
| 80.2356 | 798.544 | 347 | 3.66072 | 0.885830 | 0.116784 | 0.828862 | 289 |
| 80.0945 | 798.923 | 357 | 3.48706 | 1.05645 | 0.111857 | 0.791668 | 290 |
| 80.0110 | 799.558 | 369 | 2.96542 | 1.34634 | 9.475092E-02 | 0.672027 | 291 |
| 80.6194 | 799.397 | 364 | 3.52047 | 1.07038 | 0.111158 | 0.794394 | 292 |
| 79.9727 | 800.649 | 341 | 3.66275 | 0.951603 | 0.117563 | 0.832174 | 293 |
| 79.8694 | 799.334 | 371 | 3.40597 | 1.11995 | 0.109281 | 0.772994 | 294 |
| 80.1243 | 798.956 | 348 | 3.82787 | 0.853933 | 0.122396 | 0.867631 | 295 |

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|---|---|---|---|---|---|---|---|
| 80.2320 | 799.849 | 362 | 3.32251 | 1.00495 | 0.105629 | 0.751706 | 296 |
| 79.9541 | 799.091 | 335 | 3.58623 | 0.940058 | 0.115504 | 0.815350 | 297 |
| 80.5141 | 799.394 | 374 | 3.59940 | 0.869389 | 0.113819 | 0.812623 | 298 |
| 80.3180 | 800.443 | 370 | 3.01249 | 1.36668 | 9.558456E-02 | 0.681289 | 299 |
| 80.2349 | 798.906 | 357 | 3.23152 | 1.10825 | 0.102984 | 0.731501 | 300 |
| 79.8969 | 799.908 | 338 | 3.19479 | 1.21692 | 0.102733 | 0.726007 | 301 |
| 79.9611 | 799.815 | 350 | 3.28561 | 1.22335 | 0.105778 | 0.747373 | 302 |
| 80.1455 | 799.059 | 349 | 3.38382 | 1.02603 | 0.108425 | 0.767931 | 303 |
| 80.2687 | 798.223 | 360 | 3.26833 | 1.22873 | 0.104377 | 0.740287 | 304 |
| 80.4335 | 797.871 | 368 | 3.13725 | 1.31664 | 9.962207E-02 | 0.708894 | 305 |
| 80.1618 | 799.826 | 371 | 3.59019 | 0.829525 | 0.114441 | 0.813238 | 306 |
| 79.7843 | 800.130 | 363 | 3.27878 | 1.22989 | 0.105595 | 0.745710 | 307 |
| 80.4255 | 799.247 | 382 | 3.51633 | 0.999727 | 0.111352 | 0.794210 | 308 |
| 79.7663 | 798.911 | 365 | 3.72077 | 0.982607 | 0.119830 | 0.845509 | 309 |
| 80.1315 | 799.003 | 339 | 3.50577 | 0.914959 | 0.112581 | 0.796336 | 310 |
| 80.1809 | 799.002 | 364 | 3.82235 | 0.860005 | 0.121936 | 0.865642 | 311 |
| 80.0692 | 799.537 | 358 | 3.99750 | 0.752406 | 0.128102 | 0.907371 | 312 |
| 79.9168 | 800.405 | 356 | 3.36735 | 1.05862 | 0.108084 | 0.765019 | 313 |
| 80.2365 | 797.784 | 344 | 3.63696 | 1.01079 | 0.116386 | 0.824267 | 314 |
| 80.0403 | 800.028 | 339 | 3.41743 | 1.00026 | 0.109361 | 0.775178 | 315 |
| 79.7818 | 800.414 | 349 | 3.37628 | 0.927628 | 0.108593 | 0.767513 | 316 |
| 79.9932 | 799.477 | 363 | 3.29270 | 1.17187 | 0.105392 | 0.746730 | 317 |
| 80.1598 | 799.430 | 350 | 3.44163 | 1.06848 | 0.109928 | 0.780002 | 318 |
| 80.3103 | 800.706 | 374 | 3.04482 | 1.26826 | 9.662925E-02 | 0.688855 | 319 |
| 79.9746 | 799.045 | 357 | 3.41775 | 1.04833 | 0.109706 | 0.775954 | 320 |
| 80.1462 | 799.705 | 360 | 3.44936 | 1.02477 | 0.110170 | 0.781888 | 321 |
| 80.0312 | 799.456 | 334 | 3.51988 | 1.02815 | 0.113090 | 0.799613 | 322 |
| 79.7713 | 800.762 | 339 | 3.97957 | 0.777578 | 0.128472 | 0.906377 | 323 |
| 80.0656 | 800.198 | 351 | 3.24059 | 1.14977 | 0.103498 | 0.734538 | 324 |
| 80.1575 | 798.280 | 346 | 3.17992 | 1.10234 | 0.101856 | 0.721146 | 325 |
| 79.9717 | 799.573 | 355 | 3.74979 | 0.796133 | 0.120273 | 0.851297 | 326 |
| 79.9725 | 800.178 | 351 | 3.66798 | 0.939399 | 0.117654 | 0.832973 | 327 |
| 80.1080 | 798.003 | 357 | 3.55852 | 1.02696 | 0.113956 | 0.806714 | 328 |
| 80.2302 | 800.049 | 350 | 3.73041 | 0.811769 | 0.118957 | 0.845290 | 329 |
| 80.2790 | 798.434 | 371 | 3.48028 | 0.992846 | 0.110702 | 0.787019 | 330 |
| 80.1773 | 800.610 | 363 | 3.70269 | 0.812447 | 0.117643 | 0.837733 | 331 |
| 79.5729 | 800.337 | 357 | 3.74165 | 0.903332 | 0.121079 | 0.852549 | 332 |
| 79.8220 | 798.650 | 351 | 3.38639 | 0.912351 | 0.109165 | 0.769911 | 333 |
| 79.7722 | 798.946 | 376 | 3.80296 | 0.810679 | 0.122105 | 0.863013 | 334 |
| 80.2137 | 799.238 | 342 | 3.27938 | 1.32540 | 0.105033 | 0.744139 | 335 |
| 80.3178 | 798.754 | 392 | 3.02038 | 1.17613 | 9.595641E-02 | 0.682905 | 336 |
| 80.0791 | 799.036 | 348 | 3.25758 | 1.04395 | 0.104406 | 0.739183 | 337 |
| 80.1724 | 800.360 | 367 | 3.27133 | 1.12944 | 0.103788 | 0.739381 | 338 |
| 80.0888 | 800.148 | 350 | 2.93527 | 1.32075 | 9.363855E-02 | 0.665020 | 339 |
| 80.2422 | 799.833 | 358 | 3.88175 | 0.844180 | 0.123577 | 0.878750 | 340 |
| 80.1032 | 800.223 | 368 | 3.35375 | 1.16849 | 0.106783 | 0.759156 | 341 |
| 79.9701 | 799.802 | 358 | 3.32830 | 1.21646 | 0.106766 | 0.755706 | 342 |
| 79.8264 | 800.229 | 328 | 3.73177 | 0.822216 | 0.120297 | 0.848995 | 343 |
| 80.0588 | 798.769 | 359 | 3.29231 | 1.23962 | 0.105486 | 0.746761 | 344 |
| 80.1169 | 799.188 | 335 | 3.54679 | 0.974317 | 0.113768 | 0.805141 | 345 |
| 79.9036 | 799.232 | 345 | 3.64709 | 0.850652 | 0.117266 | 0.828586 | 346 |
| 79.9834 | 799.400 | 336 | 3.42450 | 0.966525 | 0.110036 | 0.777928 | 347 |
| 79.9824 | 799.436 | 343 | 3.38750 | 1.10357 | 0.109000 | 0.770108 | 348 |
| 79.9873 | 799.444 | 333 | 3.11859 | 1.27880 | 0.100322 | 0.708774 | 349 |
| 80.1256 | 801.340 | 346 | 3.30665 | 1.10468 | 0.105359 | 0.749244 | 350 |
| 79.9415 | 798.196 | 356 | 3.53855 | 1.07524 | 0.113832 | 0.803734 | 351 |
| 80.0344 | 800.086 | 359 | 3.63950 | 0.950775 | 0.116276 | 0.824983 | 352 |
| 79.9225 | 799.512 | 370 | 3.46266 | 1.00283 | 0.111130 | 0.786217 | 353 |
| 80.3933 | 799.434 | 367 | 3.99557 | 0.740318 | 0.127072 | 0.904359 | 354 |
| 80.0678 | 800.313 | 348 | 3.44757 | 1.06052 | 0.110198 | 0.781834 | 355 |
| 80.2690 | 799.426 | 352 | 3.45117 | 1.01038 | 0.109871 | 0.781148 | 356 |
| 80.1471 | 799.288 | 332 | 3.46222 | 0.974352 | 0.111051 | 0.786034 | 357 |
| 80.1126 | 800.004 | 359 | 3.41700 | 1.03516 | 0.109378 | 0.775501 | 358 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 79.9546 | 797.976 | 335 | 3.47963 | 1.03694 | 0.112401 | 0.791716 | 359 |
| 80.4118 | 800.153 | 377 | 3.30734 | 1.06835 | 0.104757 | 0.747423 | 360 |
| 79.8575 | 798.414 | 359 | 3.36228 | 1.20262 | 0.108229 | 0.763869 | 361 |
| 80.1348 | 799.273 | 360 | 3.58286 | 0.916399 | 0.114395 | 0.811774 | 362 |
| 80.3758 | 799.397 | 376 | 3.74162 | 0.815524 | 0.118531 | 0.845188 | 363 |
| 80.2070 | 799.346 | 346 | 3.99576 | 0.832495 | 0.127633 | 0.905597 | 364 |
| 80.1250 | 798.891 | 359 | 3.71206 | 0.944441 | 0.118469 | 0.840559 | 365 |
| 80.4524 | 800.615 | 361 | 3.35251 | 1.13684 | 0.106232 | 0.758024 | 366 |
| 80.0618 | 800.952 | 358 | 3.65092 | 0.935863 | 0.116571 | 0.827879 | 367 |
| 80.0072 | 800.050 | 374 | 3.57574 | 1.00237 | 0.114189 | 0.810362 | 368 |
| 79.9386 | 800.075 | 358 | 3.35765 | 1.04813 | 0.107634 | 0.762236 | 369 |
| 80.4202 | 799.444 | 353 | 3.72036 | 0.955641 | 0.117910 | 0.840482 | 370 |
| 79.8046 | 798.778 | 335 | 3.35941 | 1.24650 | 0.108571 | 0.764570 | 371 |
| 80.1398 | 800.311 | 365 | 3.43194 | 0.919670 | 0.109436 | 0.777662 | 372 |
| 80.3780 | 799.044 | 340 | 3.67573 | 0.918718 | 0.116984 | 0.831751 | 373 |
| 80.3284 | 798.321 | 394 | 3.56073 | 0.882339 | 0.113156 | 0.804960 | 374 |
| 79.9756 | 800.143 | 379 | 3.15956 | 1.20711 | 0.100840 | 0.715779 | 375 |
| 80.2038 | 799.098 | 337 | 3.52511 | 0.993594 | 0.112948 | 0.799958 | 376 |
| 80.0852 | 799.883 | 349 | 3.56683 | 0.949312 | 0.114085 | 0.808978 | 377 |
| 79.8975 | 799.706 | 332 | 3.01921 | 1.36884 | 9.730848E-02 | 0.686805 | 378 |
| 80.1020 | 799.161 | 366 | 3.81783 | 0.872927 | 0.122132 | 0.865723 | 379 |
| 80.1719 | 798.305 | 357 | 3.38356 | 1.05134 | 0.108194 | 0.766759 | 380 |
| 80.0311 | 800.790 | 360 | 3.57960 | 0.948837 | 0.114108 | 0.810865 | 381 |
| 80.3950 | 800.416 | 373 | 3.57821 | 0.913190 | 0.113475 | 0.809274 | 382 |
| 79.8624 | 799.594 | 349 | 4.02291 | 0.764503 | 0.129239 | 0.913635 | 383 |
| 80.3636 | 799.082 | 381 | 3.64053 | 0.962545 | 0.115628 | 0.823181 | 384 |
| 80.2556 | 800.709 | 359 | 3.35736 | 1.03695 | 0.106850 | 0.760420 | 385 |
| 80.0802 | 799.112 | 349 | 3.78959 | 0.865606 | 0.121280 | 0.859285 | 386 |
| 79.9879 | 800.855 | 344 | 3.42284 | 0.961630 | 0.109738 | 0.777486 | 387 |
| 80.0551 | 800.583 | 349 | 3.75117 | 0.918100 | 0.120088 | 0.851390 | 388 |
| 80.0499 | 798.926 | 371 | 3.29312 | 1.11019 | 0.105566 | 0.747355 | 389 |
| 80.5232 | 798.706 | 347 | 3.54596 | 1.13895 | 0.112555 | 0.801524 | 390 |
| 80.6066 | 798.019 | 362 | 3.57726 | 0.905080 | 0.113156 | 0.807240 | 391 |
| 80.2148 | 799.827 | 320 | 3.28039 | 1.26470 | 0.105013 | 0.744148 | 392 |
| 80.3317 | 799.106 | 369 | 3.40823 | 1.09192 | 0.108401 | 0.771172 | 393 |
| 79.7541 | 800.757 | 364 | 3.27482 | 1.20961 | 0.105227 | 0.744210 | 394 |
| 80.3165 | 798.963 | 359 | 3.56145 | 0.882699 | 0.113531 | 0.806593 | 395 |
| 80.3761 | 798.996 | 358 | 3.30521 | 1.22987 | 0.105082 | 0.747580 | 396 |
| 80.0748 | 799.099 | 369 | 3.64869 | 0.856880 | 0.116733 | 0.827321 | 397 |
| 80.0518 | 800.646 | 374 | 3.27596 | 1.10065 | 0.104299 | 0.741729 | 398 |
| 80.0525 | 799.919 | 371 | 3.37209 | 1.15356 | 0.107698 | 0.764273 | 399 |
| 80.3326 | 798.853 | 314 | 3.57617 | 0.885917 | 0.114754 | 0.811936 | 400 |
| 80.2955 | 799.221 | 370 | 3.40752 | 1.06285 | 0.108177 | 0.770203 | 401 |
| 80.2223 | 800.106 | 374 | 3.62904 | 0.898293 | 0.115107 | 0.820178 | 402 |
| 80.5095 | 798.427 | 367 | 3.82566 | 0.891155 | 0.121382 | 0.864552 | 403 |
| 80.1957 | 799.899 | 361 | 3.40573 | 0.985482 | 0.108380 | 0.770822 | 404 |
| 79.9865 | 800.013 | 348 | 3.20385 | 1.30391 | 0.102939 | 0.728101 | 405 |
| 80.2670 | 799.848 | 350 | 3.80427 | 0.815870 | 0.121494 | 0.862651 | 406 |
| 80.1606 | 799.365 | 370 | 3.86593 | 0.765458 | 0.123460 | 0.876204 | 407 |
| 79.8929 | 799.330 | 342 | 3.60246 | 0.997768 | 0.116248 | 0.819818 | 408 |
| 80.0438 | 798.854 | 332 | 3.52949 | 1.02525 | 0.113498 | 0.801862 | 409 |
| 79.7378 | 799.268 | 346 | 3.53643 | 0.931532 | 0.114110 | 0.804412 | 410 |
| 80.5396 | 798.739 | 362 | 3.48344 | 1.06440 | 0.110113 | 0.785974 | 411 |
| 79.9431 | 800.844 | 359 | 3.21163 | 1.33099 | 0.102671 | 0.728354 | 412 |
| 79.9299 | 801.128 | 360 | 3.78825 | 0.790199 | 0.121090 | 0.859273 | 413 |
| 79.7565 | 799.611 | 342 | 3.30795 | 1.17530 | 0.106947 | 0.753351 | 414 |
| 80.1994 | 799.238 | 365 | 3.72987 | 0.818989 | 0.119077 | 0.845224 | 415 |
| 80.2010 | 798.892 | 337 | 3.38017 | 1.09509 | 0.108178 | 0.766474 | 416 |
| 80.3099 | 799.350 | 326 | 3.25036 | 1.18465 | 0.103972 | 0.737180 | 417 |
| 80.0975 | 798.623 | 371 | 3.03988 | 1.30810 | 9.718536E-02 | 0.688921 | 418 |
| 80.1478 | 800.149 | 344 | 3.81974 | 0.777269 | 0.121979 | 0.865922 | 419 |
| 79.9568 | 800.363 | 350 | 3.57160 | 0.970079 | 0.114411 | 0.810595 | 420 |
| 80.2639 | 799.368 | 363 | 4.27152 | 0.706908 | 0.135868 | 0.966347 | 421 |

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|---|---|---|---|---|---|---|---|
| 79.9438 | 798.367 | 355 | 3.46732 | 1.03860 | 0.111493 | 0.787473 | 422 |
| 79.7599 | 801.625 | 368 | 3.31581 | 1.11918 | 0.106448 | 0.753671 | 423 |
| 79.7918 | 800.503 | 341 | 3.14263 | 1.23065 | 0.101304 | 0.715120 | 424 |
| 80.3443 | 798.590 | 338 | 3.61985 | 0.966165 | 0.115667 | 0.820456 | 425 |
| 80.2619 | 798.271 | 369 | 3.35161 | 1.09930 | 0.106889 | 0.758785 | 426 |
| 79.7686 | 800.034 | 337 | 3.41033 | 1.07215 | 0.110051 | 0.776168 | 427 |
| 80.1568 | 800.044 | 376 | 3.37649 | 1.01846 | 0.107470 | 0.764332 | 428 |
| 79.9316 | 798.991 | 363 | 3.38748 | 1.41073 | 0.108935 | 0.769550 | 429 |
| 80.1628 | 798.698 | 367 | 2.83500 | 1.63023 | 9.064493E-02 | 0.642659 | 430 |
| 80.1333 | 799.836 | 356 | 3.74755 | 0.792422 | 0.119822 | 0.849995 | 431 |
| 79.9417 | 799.597 | 365 | 3.26262 | 1.04664 | 0.104290 | 0.739407 | 432 |
| 80.1049 | 798.261 | 386 | 3.12604 | 1.26852 | 0.100013 | 0.708555 | 433 |
| 79.9372 | 801.283 | 364 | 3.24324 | 1.17464 | 0.103830 | 0.736284 | 434 |
| 80.0087 | 799.285 | 347 | 3.41733 | 0.993858 | 0.109584 | 0.775591 | 435 |
| 80.0794 | 801.759 | 353 | 3.72956 | 0.887052 | 0.118764 | 0.844999 | 436 |
| 80.1370 | 799.490 | 355 | 3.31041 | 1.32163 | 0.105993 | 0.751109 | 437 |
| 79.9786 | 798.488 | 363 | 3.44344 | 0.921331 | 0.110520 | 0.781536 | 438 |
| 80.3070 | 799.396 | 341 | 3.11518 | 1.19250 | 9.949275E-02 | 0.706210 | 439 |
| 80.4166 | 799.720 | 366 | 3.37428 | 0.903249 | 0.106952 | 0.762658 | 440 |
| 80.3642 | 798.972 | 355 | 3.31816 | 1.04664 | 0.105584 | 0.750854 | 441 |
| 80.6104 | 798.682 | 366 | 2.87988 | 1.57737 | 9.108727E-02 | 0.650071 | 442 |
| 80.0475 | 799.604 | 338 | 4.04941 | 0.710115 | 0.130209 | 0.920525 | 443 |
| 80.0787 | 797.936 | 362 | 3.49576 | 1.14079 | 0.112023 | 0.792613 | 444 |
| 80.2197 | 799.385 | 343 | 3.60051 | 0.928115 | 0.115010 | 0.816058 | 445 |
| 80.2742 | 800.428 | 334 | 3.51734 | 0.993929 | 0.112211 | 0.797246 | 446 |
| 80.3095 | 799.680 | 359 | 3.66830 | 1.04540 | 0.117017 | 0.831322 | 447 |
| 80.2598 | 798.779 | 365 | 3.71650 | 0.950808 | 0.118317 | 0.840812 | 448 |
| 80.1663 | 800.174 | 350 | 3.15417 | 1.37969 | 0.100713 | 0.715069 | 449 |
| 80.0949 | 800.511 | 360 | 3.76457 | 0.854500 | 0.119985 | 0.852733 | 450 |
| 80.0391 | 799.556 | 347 | 3.48974 | 0.930870 | 0.111604 | 0.791180 | 451 |
| 80.2020 | 800.361 | 357 | 3.25424 | 1.18285 | 0.103749 | 0.737391 | 452 |
| 80.2265 | 798.675 | 363 | 3.36853 | 1.07805 | 0.107395 | 0.762533 | 453 |
| 80.1168 | 799.816 | 355 | 3.92000 | 0.852508 | 0.125533 | 0.889725 | 454 |
| 80.1752 | 798.755 | 356 | 3.45384 | 1.18520 | 0.110550 | 0.783314 | 455 |
| 80.0894 | 799.475 | 329 | 3.72291 | 0.882641 | 0.119484 | 0.845329 | 456 |
| 79.8820 | 799.060 | 359 | 3.62875 | 0.961070 | 0.116745 | 0.824591 | 457 |
| 80.4258 | 797.688 | 350 | 4.00363 | 0.658416 | 0.127710 | 0.906521 | 458 |
| 79.7643 | 799.836 | 360 | 3.44250 | 1.09795 | 0.110906 | 0.782872 | 459 |
| 80.2274 | 800.605 | 345 | 3.64429 | 0.861189 | 0.116224 | 0.826036 | 460 |
| 80.2218 | 798.890 | 349 | 3.29098 | 1.07165 | 0.105083 | 0.745570 | 461 |
| 80.1506 | 801.080 | 355 | 3.92511 | 0.794457 | 0.125065 | 0.889379 | 462 |
| 80.2442 | 798.734 | 333 | 3.46137 | 1.03034 | 0.110529 | 0.784061 | 463 |
| 79.9145 | 799.551 | 347 | 3.76353 | 0.980482 | 0.121021 | 0.855199 | 464 |
| 79.7833 | 799.700 | 384 | 3.21120 | 1.10756 | 0.103083 | 0.729079 | 465 |
| 80.5150 | 797.822 | 360 | 3.44052 | 1.12943 | 0.109192 | 0.777297 | 466 |
| 80.1544 | 798.672 | 346 | 3.49813 | 1.00546 | 0.112207 | 0.794066 | 467 |
| 80.4353 | 798.887 | 373 | 3.28609 | 1.12075 | 0.104269 | 0.742737 | 468 |
| 80.0733 | 799.384 | 326 | 4.19232 | 0.711944 | 0.135078 | 0.953639 | 469 |
| 80.1913 | 798.968 | 358 | 3.35547 | 1.13603 | 0.107334 | 0.760934 | 470 |
| 80.4225 | 798.920 | 347 | 3.62419 | 0.918444 | 0.115162 | 0.819588 | 471 |
| 80.3280 | 800.023 | 379 | 3.56080 | 0.926293 | 0.112827 | 0.804656 | 472 |
| 80.2521 | 800.162 | 358 | 3.10413 | 1.49269 | 9.907317E-02 | 0.703702 | 473 |
| 80.2395 | 798.254 | 358 | 3.49201 | 0.937323 | 0.111437 | 0.790743 | 474 |
| 80.1320 | 799.380 | 373 | 3.60805 | 0.862370 | 0.115214 | 0.817692 | 475 |
| 80.3097 | 799.368 | 360 | 3.44009 | 0.975096 | 0.109608 | 0.779125 | 476 |
| 79.9662 | 799.226 | 334 | 3.36239 | 0.975945 | 0.108025 | 0.763576 | 477 |
| 80.2876 | 799.379 | 372 | 3.77065 | 0.738359 | 0.119801 | 0.852804 | 478 |
| 79.9387 | 799.437 | 362 | 3.59465 | 0.998902 | 0.115129 | 0.815303 | 479 |
| 79.9607 | 800.034 | 346 | 3.16691 | 1.26920 | 0.101606 | 0.719166 | 480 |
| 79.9534 | 799.380 | 348 | 3.20421 | 1.25587 | 0.102840 | 0.727452 | 481 |
| 80.1369 | 799.387 | 365 | 3.18642 | 1.12479 | 0.101756 | 0.722081 | 482 |
| 79.7986 | 799.496 | 364 | 3.51949 | 1.00087 | 0.112917 | 0.798617 | 483 |
| 80.3861 | 800.058 | 372 | 3.19850 | 1.09343 | 0.101333 | 0.722845 | 484 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 79.9538 | 800.207 | 344 | 3.41920 | 1.00752 | 0.109798 | 0.776828 | 485 |
| 80.0739 | 800.451 | 357 | 3.49500 | 0.969695 | 0.111780 | 0.792944 | 486 |
| 80.1834 | 799.080 | 362 | 3.29801 | 1.19926 | 0.105271 | 0.747094 | 487 |
| 79.8930 | 800.839 | 367 | 3.61036 | 0.909641 | 0.115774 | 0.820073 | 488 |
| 79.9539 | 799.360 | 324 | 3.65433 | 0.873303 | 0.117958 | 0.831719 | 489 |
| 80.3099 | 798.772 | 345 | 3.22458 | 1.28901 | 0.103278 | 0.731772 | 490 |
| 80.0279 | 800.369 | 352 | 3.40182 | 1.01328 | 0.108759 | 0.771488 | 491 |
| 79.9597 | 800.007 | 368 | 3.31986 | 0.999178 | 0.106272 | 0.753213 | 492 |
| 80.4202 | 800.609 | 347 | 3.64435 | 0.966917 | 0.115570 | 0.824128 | 493 |
| 79.7703 | 799.319 | 353 | 3.68525 | 0.875724 | 0.118799 | 0.838079 | 494 |
| 80.1131 | 799.646 | 336 | 3.93584 | 0.775510 | 0.126203 | 0.893592 | 495 |
| 80.1325 | 799.329 | 389 | 3.81902 | 0.823684 | 0.121641 | 0.864366 | 496 |
| 80.2173 | 798.715 | 352 | 3.95270 | 0.699699 | 0.126226 | 0.895518 | 497 |
| 80.1139 | 800.192 | 364 | 3.37037 | 1.09054 | 0.107114 | 0.762236 | 498 |
| 80.3260 | 798.228 | 346 | 3.72317 | 0.906938 | 0.118910 | 0.843486 | 499 |
| 80.2667 | 798.544 | 377 | 3.74921 | 0.807779 | 0.119303 | 0.848071 | 500 |

average tau =   80.1192   sigma tau =   0.197362 average red chisq =   1.01401
average amp =   799.481   sigma amp =   0.814629

These next results just subtract a constant and not a line to fit

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 80.5752 | 798.719 | 362 | 3.35893 | 1.25422 | 0.106458 | 0.758921 | 1 |
| 81.3499 | 800.178 | 388 | 3.12312 | 1.46224 | 9.619500E-02 | 0.697805 | 2 |
| 80.9149 | 800.150 | 374 | 3.44697 | 1.06936 | 0.107544 | 0.774203 | 3 |
| 79.7548 | 799.576 | 338 | 3.80135 | 0.872096 | 0.122846 | 0.865519 | 4 |
| 79.0135 | 798.541 | 331 | 3.63604 | 0.910300 | 0.119872 | 0.833683 | 5 |
| 80.9586 | 799.648 | 368 | 3.61061 | 0.864946 | 0.112814 | 0.811429 | 6 |
| 80.1569 | 797.891 | 362 | 3.42433 | 1.17022 | 0.109603 | 0.776111 | 7 |
| 79.4741 | 797.292 | 333 | 3.37546 | 1.13809 | 0.110575 | 0.771965 | 8 |
| 80.4532 | 800.183 | 354 | 3.22931 | 1.27131 | 0.102319 | 0.729907 | 9 |
| 81.1125 | 799.681 | 387 | 3.49142 | 1.11565 | 0.108355 | 0.782321 | 10 |
| 80.5077 | 799.022 | 368 | 3.49128 | 1.06853 | 0.110484 | 0.788274 | 11 |
| 79.6002 | 797.450 | 334 | 3.31525 | 1.18316 | 0.108166 | 0.757040 | 12 |
| 79.1626 | 798.503 | 341 | 3.29905 | 1.29514 | 0.108376 | 0.755483 | 13 |
| 81.2251 | 800.317 | 368 | 3.19251 | 1.31821 | 9.898882E-02 | 0.715506 | 14 |
| 79.3292 | 798.780 | 335 | 3.69603 | 0.829978 | 0.120672 | 0.844350 | 15 |
| 79.5734 | 800.261 | 346 | 2.89662 | 1.43467 | 9.361563E-02 | 0.659527 | 16 |
| 79.0577 | 799.572 | 327 | 3.84548 | 0.823077 | 0.126538 | 0.881585 | 17 |
| 80.4351 | 798.613 | 369 | 3.39535 | 1.15101 | 0.107503 | 0.766452 | 18 |
| 80.2080 | 799.272 | 353 | 3.19878 | 1.18468 | 0.102157 | 0.724964 | 19 |
| 81.0140 | 801.243 | 377 | 3.52520 | 0.959513 | 0.109852 | 0.792122 | 20 |
| 79.6472 | 797.392 | 341 | 3.58371 | 1.08685 | 0.116763 | 0.817924 | 21 |
| 79.1770 | 797.883 | 352 | 3.95079 | 0.834789 | 0.129852 | 0.904799 | 22 |
| 81.1471 | 800.222 | 361 | 3.30753 | 1.27443 | 0.102671 | 0.741399 | 23 |
| 81.2293 | 801.075 | 392 | 3.29666 | 1.30104 | 0.101711 | 0.737371 | 24 |
| 79.0025 | 798.244 | 349 | 3.67338 | 0.967762 | 0.121068 | 0.842169 | 25 |
| 80.0539 | 796.887 | 347 | 3.58448 | 1.00537 | 0.115628 | 0.814850 | 26 |
| 78.9916 | 797.869 | 355 | 3.19001 | 1.45865 | 0.105399 | 0.732083 | 27 |
| 79.6977 | 799.893 | 352 | 3.09632 | 1.41760 | 9.995625E-02 | 0.704716 | 28 |
| 79.8389 | 799.929 | 337 | 3.42816 | 1.09868 | 0.110690 | 0.780525 | 29 |
| 81.2043 | 801.602 | 401 | 3.84772 | 1.06123 | 0.118336 | 0.859339 | 30 |
| 80.5819 | 799.177 | 361 | 3.72136 | 0.963760 | 0.117562 | 0.839674 | 31 |
| 79.7624 | 797.706 | 353 | 3.61928 | 0.871084 | 0.117244 | 0.824314 | 32 |
| 79.4496 | 799.280 | 357 | 3.26257 | 1.15898 | 0.106372 | 0.745506 | 33 |
| 79.2025 | 798.523 | 321 | 3.19185 | 1.34033 | 0.104995 | 0.731267 | 34 |
| 81.2617 | 799.766 | 367 | 3.68642 | 1.08504 | 0.114376 | 0.826180 | 35 |
| 81.4258 | 800.050 | 376 | 3.38624 | 1.27795 | 0.104369 | 0.756912 | 36 |
| 79.0984 | 799.037 | 343 | 3.58073 | 1.04718 | 0.117433 | 0.819482 | 37 |
| 79.2053 | 797.303 | 336 | 3.28119 | 1.22488 | 0.107982 | 0.751594 | 38 |
| 79.0145 | 798.898 | 342 | 3.79666 | 0.924034 | 0.125149 | 0.870818 | 39 |
| 80.3093 | 799.649 | 348 | 3.79084 | 0.766531 | 0.120884 | 0.858941 | 40 |
| 81.0018 | 800.847 | 360 | 3.27709 | 1.18600 | 0.102249 | 0.736527 | 41 |
| 81.9007 | 797.679 | 399 | 3.06411 | 1.55532 | 9.361162E-02 | 0.681858 | 42 |

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|---|---|---|---|---|---|---|---|
| 79.0546 | 798.397 | 356 | 3.20801 | 1.16024 | 0.105445 | 0.734727 | 43 |
| 80.8937 | 801.212 | 369 | 3.71971 | 0.912976 | 0.116093 | 0.836110 | 44 |
| 80.4620 | 798.455 | 375 | 3.53119 | 0.961825 | 0.111773 | 0.797009 | 45 |
| 80.7560 | 799.296 | 398 | 3.50466 | 1.01101 | 0.109674 | 0.787633 | 46 |
| 79.9229 | 798.424 | 357 | 3.83225 | 0.797567 | 0.123288 | 0.870592 | 47 |
| 79.1885 | 798.613 | 342 | 3.65571 | 0.991163 | 0.120112 | 0.837378 | 48 |
| 81.5235 | 799.089 | 409 | 3.34716 | 1.34546 | 0.102667 | 0.746144 | 49 |
| 81.1204 | 799.863 | 381 | 3.42974 | 1.15679 | 0.106547 | 0.768974 | 50 |
| 79.2017 | 800.237 | 321 | 3.75823 | 0.958521 | 0.123496 | 0.861541 | 51 |
| 79.3583 | 799.124 | 339 | 3.96943 | 0.834829 | 0.129738 | 0.907565 | 52 |
| 79.5923 | 798.689 | 360 | 3.41586 | 0.906116 | 0.110751 | 0.778434 | 53 |
| 78.9600 | 798.512 | 352 | 3.17475 | 1.36717 | 0.104751 | 0.728286 | 54 |
| 81.5847 | 798.961 | 371 | 3.35670 | 1.22900 | 0.103536 | 0.750466 | 55 |
| 79.6337 | 799.621 | 361 | 3.19935 | 1.14029 | 0.103511 | 0.728806 | 56 |
| 79.7898 | 798.578 | 347 | 3.55888 | 0.959565 | 0.114734 | 0.808950 | 57 |
| 80.1546 | 798.452 | 351 | 3.69306 | 0.891105 | 0.118347 | 0.837846 | 58 |
| 79.1100 | 799.001 | 357 | 3.46815 | 1.07273 | 0.113534 | 0.793024 | 59 |
| 79.0785 | 799.572 | 329 | 3.75483 | 0.976314 | 0.123814 | 0.861704 | 60 |
| 81.5437 | 798.443 | 390 | 3.63253 | 1.09450 | 0.112137 | 0.812073 | 61 |
| 79.1833 | 797.368 | 337 | 3.47778 | 1.04189 | 0.114437 | 0.796540 | 62 |
| 80.1981 | 799.210 | 335 | 3.61992 | 1.08164 | 0.115630 | 0.820157 | 63 |
| 79.6544 | 798.746 | 343 | 3.33825 | 1.07673 | 0.108248 | 0.760831 | 64 |
| 79.7661 | 799.878 | 346 | 3.38526 | 1.14940 | 0.109125 | 0.770012 | 65 |
| 81.2681 | 799.715 | 390 | 3.46942 | 1.21362 | 0.107396 | 0.776717 | 66 |
| 81.1743 | 799.395 | 377 | 3.22713 | 1.20710 | 0.100440 | 0.724155 | 67 |
| 80.5295 | 800.762 | 365 | 3.23877 | 1.14087 | 0.102256 | 0.731268 | 68 |
| 81.1212 | 800.193 | 333 | 3.68458 | 1.06262 | 0.115302 | 0.828947 | 69 |
| 81.5132 | 799.000 | 391 | 3.80558 | 0.972829 | 0.117146 | 0.849749 | 70 |
| 80.3488 | 800.058 | 346 | 3.36063 | 1.29186 | 0.106620 | 0.759681 | 71 |
| 81.0890 | 799.395 | 365 | 3.49887 | 1.08313 | 0.108959 | 0.785066 | 72 |
| 81.0548 | 801.092 | 383 | 3.82786 | 0.897622 | 0.118880 | 0.858688 | 73 |
| 81.2394 | 800.693 | 384 | 3.09947 | 1.58032 | 9.577431E-02 | 0.693656 | 74 |
| 81.5514 | 799.733 | 369 | 3.34646 | 1.28411 | 0.103012 | 0.747691 | 75 |
| 80.4852 | 800.056 | 361 | 3.78132 | 0.826019 | 0.119632 | 0.854166 | 76 |
| 78.9729 | 798.135 | 331 | 3.24508 | 1.37326 | 0.107594 | 0.745907 | 77 |
| 81.0999 | 800.853 | 369 | 3.52846 | 1.05434 | 0.109650 | 0.791696 | 78 |
| 81.3681 | 800.252 | 389 | 3.64958 | 1.21646 | 0.112557 | 0.815981 | 79 |
| 80.6125 | 801.024 | 361 | 3.35312 | 1.16301 | 0.105525 | 0.756102 | 80 |
| 79.1657 | 797.799 | 349 | 3.76358 | 1.12637 | 0.124127 | 0.863248 | 81 |
| 79.4488 | 799.147 | 363 | 3.81497 | 0.864751 | 0.123863 | 0.869859 | 82 |
| 79.4700 | 798.801 | 325 | 3.67780 | 0.982180 | 0.119797 | 0.839332 | 83 |
| 79.9788 | 798.264 | 363 | 3.47768 | 1.05765 | 0.111454 | 0.788575 | 84 |
| 81.3637 | 800.117 | 389 | 3.52363 | 1.13872 | 0.108449 | 0.787045 | 85 |
| 81.1215 | 799.783 | 381 | 3.34679 | 1.21538 | 0.104064 | 0.750708 | 86 |
| 81.0162 | 800.313 | 365 | 3.54006 | 1.00702 | 0.110448 | 0.795369 | 87 |
| 80.9134 | 798.979 | 390 | 3.83728 | 0.874359 | 0.120019 | 0.862337 | 88 |
| 79.2027 | 797.481 | 325 | 3.43734 | 1.24997 | 0.113341 | 0.788006 | 89 |
| 78.9136 | 799.854 | 337 | 3.32349 | 1.10042 | 0.109633 | 0.762748 | 90 |
| 81.1266 | 799.913 | 340 | 4.15649 | 0.765749 | 0.129719 | 0.933839 | 91 |
| 80.3775 | 799.853 | 356 | 4.03708 | 0.788560 | 0.128219 | 0.913133 | 92 |
| 81.1796 | 798.720 | 395 | 3.23241 | 1.23188 | 0.100304 | 0.723974 | 93 |
| 79.3644 | 797.978 | 342 | 3.71821 | 0.973881 | 0.121723 | 0.850237 | 94 |
| 80.4357 | 801.022 | 353 | 3.52745 | 1.01543 | 0.111586 | 0.797037 | 95 |
| 79.4189 | 800.254 | 333 | 3.73932 | 0.858612 | 0.121858 | 0.854445 | 96 |
| 79.8582 | 800.608 | 331 | 3.68828 | 0.784716 | 0.118937 | 0.839599 | 97 |
| 81.2168 | 799.792 | 392 | 3.68831 | 1.04885 | 0.114188 | 0.825706 | 98 |
| 78.8455 | 800.299 | 343 | 3.28894 | 1.29333 | 0.108408 | 0.754598 | 99 |
| 79.1172 | 799.132 | 347 | 3.37043 | 1.23929 | 0.110905 | 0.772746 | 100 |
| 79.2876 | 798.331 | 332 | 3.72907 | 0.926273 | 0.122114 | 0.852723 | 101 |
| 79.2060 | 799.295 | 350 | 3.54942 | 0.939381 | 0.116217 | 0.812116 | 102 |
| 80.2908 | 798.184 | 357 | 3.53354 | 0.829835 | 0.112664 | 0.799896 | 103 |
| 79.6712 | 797.591 | 348 | 3.00889 | 1.38083 | 9.762851E-02 | 0.685486 | 104 |
| 79.4174 | 798.267 | 343 | 3.61439 | 1.14088 | 0.118292 | 0.826633 | 105 |

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|---|---|---|---|---|---|---|---|
| 81.4753 | 799.725 | 387 | 3.27493 | 1.31766 | 0.100870 | 0.731877 | 106 |
| 79.7868 | 799.882 | 340 | 3.69000 | 0.839983 | 0.118999 | 0.839553 | 107 |
| 80.2273 | 800.395 | 367 | 3.86147 | 0.829745 | 0.122729 | 0.873803 | 108 |
| 81.6540 | 800.734 | 399 | 3.43332 | 1.23383 | 0.105195 | 0.766095 | 109 |
| 80.7829 | 800.708 | 354 | 3.66185 | 0.988841 | 0.114869 | 0.824484 | 110 |
| 79.5687 | 797.146 | 364 | 3.16847 | 1.56390 | 0.103286 | 0.723181 | 111 |
| 79.0097 | 798.493 | 346 | 3.78150 | 1.02349 | 0.124660 | 0.867116 | 112 |
| 79.1693 | 797.661 | 337 | 3.46777 | 1.13409 | 0.114238 | 0.794792 | 113 |
| 79.2229 | 797.702 | 339 | 3.27151 | 1.15716 | 0.107654 | 0.749602 | 114 |
| 80.9846 | 798.497 | 392 | 3.45707 | 1.13683 | 0.107789 | 0.775585 | 115 |
| 79.5950 | 799.322 | 316 | 3.65760 | 1.05415 | 0.119371 | 0.835964 | 116 |
| 79.3177 | 797.764 | 331 | 3.82750 | 0.852904 | 0.125306 | 0.874870 | 117 |
| 79.8080 | 798.114 | 372 | 3.44549 | 1.11420 | 0.111397 | 0.784258 | 118 |
| 81.1331 | 799.512 | 371 | 3.40415 | 1.12794 | 0.105697 | 0.762852 | 119 |
| 81.3006 | 799.152 | 376 | 3.26824 | 1.09556 | 0.101367 | 0.732345 | 120 |
| 80.9032 | 801.380 | 364 | 3.52226 | 1.06752 | 0.109951 | 0.791825 | 121 |
| 81.0167 | 799.819 | 390 | 3.64052 | 1.04749 | 0.113303 | 0.816705 | 122 |
| 79.2561 | 797.301 | 353 | 3.16746 | 1.11900 | 0.103921 | 0.724688 | 123 |
| 79.3927 | 799.064 | 324 | 3.45998 | 1.13226 | 0.112990 | 0.790566 | 124 |
| 80.1043 | 798.235 | 361 | 3.54622 | 0.960543 | 0.113690 | 0.804528 | 125 |
| 80.8330 | 799.072 | 384 | 3.17039 | 1.33446 | 9.928060E-02 | 0.712785 | 126 |
| 81.4018 | 799.284 | 368 | 3.84861 | 0.981037 | 0.119119 | 0.861631 | 127 |
| 80.7192 | 801.042 | 396 | 3.76373 | 0.906942 | 0.117878 | 0.846987 | 128 |
| 79.1808 | 797.798 | 344 | 3.61394 | 0.932460 | 0.118924 | 0.828115 | 129 |
| 79.2990 | 799.110 | 360 | 3.66545 | 1.05818 | 0.119684 | 0.837659 | 130 |
| 78.9772 | 798.225 | 343 | 3.62746 | 1.17466 | 0.119761 | 0.832132 | 131 |
| 81.3821 | 800.521 | 389 | 3.72378 | 0.985731 | 0.114981 | 0.833312 | 132 |
| 79.4397 | 799.042 | 351 | 3.42749 | 1.19310 | 0.112000 | 0.783862 | 133 |
| 81.2268 | 799.725 | 388 | 3.51247 | 1.11616 | 0.108829 | 0.786695 | 134 |
| 80.3877 | 800.010 | 358 | 3.22707 | 1.26418 | 0.102413 | 0.729741 | 135 |
| 79.0602 | 798.519 | 340 | 3.21446 | 1.45398 | 0.105806 | 0.736592 | 136 |
| 81.5022 | 801.027 | 352 | 3.74362 | 1.10526 | 0.115542 | 0.837937 | 137 |
| 80.9989 | 801.615 | 376 | 3.96549 | 0.804499 | 0.122892 | 0.888647 | 138 |
| 79.2489 | 799.357 | 339 | 3.40435 | 0.970784 | 0.111052 | 0.777484 | 139 |
| 81.3267 | 800.447 | 380 | 3.14578 | 1.39889 | 9.716319E-02 | 0.703968 | 140 |
| 79.3332 | 799.070 | 350 | 2.95921 | 1.71820 | 9.661254E-02 | 0.676182 | 141 |
| 81.1998 | 800.382 | 392 | 3.44465 | 1.12577 | 0.106491 | 0.770863 | 142 |
| 81.5734 | 799.880 | 408 | 3.27585 | 1.39082 | 0.100453 | 0.730645 | 143 |
| 79.0466 | 797.073 | 312 | 3.93678 | 0.888286 | 0.130553 | 0.904211 | 144 |
| 79.3237 | 798.835 | 357 | 2.80247 | 1.50789 | 9.131192E-02 | 0.639719 | 145 |
| 79.6828 | 799.512 | 357 | 3.99778 | 0.839194 | 0.128911 | 0.909159 | 146 |
| 79.3697 | 798.673 | 329 | 3.39464 | 1.18255 | 0.111082 | 0.776283 | 147 |
| 80.7268 | 799.557 | 375 | 3.38166 | 1.01917 | 0.106333 | 0.761834 | 148 |
| 79.0080 | 798.859 | 348 | 3.48360 | 0.958281 | 0.114703 | 0.798601 | 149 |
| 79.9200 | 799.351 | 370 | 3.63569 | 0.899664 | 0.116675 | 0.825434 | 150 |
| 81.1453 | 801.355 | 354 | 3.39581 | 1.34007 | 0.105381 | 0.761491 | 151 |
| 81.0288 | 799.744 | 373 | 3.68712 | 1.07431 | 0.114778 | 0.827190 | 152 |
| 79.3515 | 797.259 | 323 | 3.71752 | 0.890490 | 0.122192 | 0.851180 | 153 |
| 79.7848 | 798.622 | 345 | 3.99971 | 0.677414 | 0.129293 | 0.910482 | 154 |
| 79.2675 | 796.525 | 340 | 3.20277 | 1.16107 | 0.105381 | 0.733386 | 155 |
| 79.3009 | 797.527 | 309 | 3.81733 | 0.867420 | 0.125945 | 0.875434 | 156 |
| 79.4475 | 799.289 | 331 | 3.09864 | 1.45287 | 0.101333 | 0.708861 | 157 |
| 79.0936 | 799.136 | 338 | 3.35884 | 1.03773 | 0.110288 | 0.769135 | 158 |
| 79.8382 | 798.486 | 326 | 3.53814 | 0.917492 | 0.114885 | 0.806995 | 159 |
| 79.3957 | 796.933 | 324 | 3.43565 | 1.06296 | 0.112913 | 0.786571 | 160 |
| 79.6606 | 797.275 | 348 | 3.42131 | 1.08335 | 0.111113 | 0.779655 | 161 |
| 80.6953 | 799.103 | 366 | 3.57020 | 0.819141 | 0.112372 | 0.804427 | 162 |
| 80.7676 | 800.836 | 379 | 3.63586 | 1.06704 | 0.113721 | 0.817606 | 163 |
| 79.4068 | 798.611 | 353 | 3.44720 | 1.32472 | 0.112465 | 0.787375 | 164 |
| 80.8376 | 799.821 | 374 | 3.46008 | 1.09049 | 0.108358 | 0.778306 | 165 |
| 81.1368 | 799.679 | 374 | 3.60663 | 1.03091 | 0.112120 | 0.808837 | 166 |
| 81.3405 | 798.654 | 397 | 3.34865 | 1.31430 | 0.103682 | 0.749412 | 167 |
| 79.6436 | 798.303 | 349 | 3.39720 | 0.983409 | 0.110221 | 0.774285 | 168 |

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|---|---|---|---|---|---|---|---|
| 80.0432 | 798.883 | 341 | 3.08332 | 1.29177 | 9.885554E-02 | 0.699563 | 169 |
| 81.1768 | 798.854 | 373 | 3.67063 | 0.978194 | 0.113970 | 0.822352 | 170 |
| 79.5810 | 800.383 | 335 | 3.53122 | 1.02835 | 0.114837 | 0.806529 | 171 |
| 81.7218 | 800.497 | 398 | 3.38373 | 1.32046 | 0.103465 | 0.754250 | 172 |
| 79.0735 | 798.865 | 338 | 3.90281 | 0.872281 | 0.128488 | 0.894667 | 173 |
| 79.1881 | 797.276 | 365 | 3.31799 | 1.21128 | 0.108894 | 0.759101 | 174 |
| 81.7305 | 799.764 | 381 | 3.52040 | 1.22451 | 0.107885 | 0.785291 | 175 |
| 79.4082 | 799.778 | 318 | 3.32481 | 1.31811 | 0.108833 | 0.760884 | 176 |
| 79.2017 | 798.242 | 339 | 3.49530 | 0.906997 | 0.114680 | 0.799934 | 177 |
| 80.0732 | 800.081 | 350 | 3.62814 | 0.846530 | 0.116134 | 0.823313 | 178 |
| 80.1462 | 797.627 | 341 | 3.62051 | 0.923870 | 0.116220 | 0.821526 | 179 |
| 79.0223 | 799.155 | 347 | 3.28825 | 1.16604 | 0.108302 | 0.754047 | 180 |
| 79.4165 | 798.875 | 346 | 3.37240 | 1.17283 | 0.110039 | 0.770439 | 181 |
| 81.0940 | 799.372 | 374 | 3.67824 | 1.07377 | 0.114393 | 0.824725 | 182 |
| 79.1531 | 799.460 | 337 | 3.75412 | 0.852220 | 0.122964 | 0.858924 | 183 |
| 80.3239 | 799.383 | 367 | 3.92178 | 0.867436 | 0.124564 | 0.886801 | 184 |
| 79.1700 | 798.856 | 321 | 3.32085 | 1.22942 | 0.109420 | 0.761604 | 185 |
| 79.3937 | 799.884 | 362 | 3.64773 | 0.968134 | 0.118683 | 0.832808 | 186 |
| 81.1617 | 800.567 | 366 | 3.86716 | 0.833787 | 0.119982 | 0.866930 | 187 |
| 79.1197 | 799.139 | 308 | 3.76040 | 0.963719 | 0.124074 | 0.862753 | 188 |
| 80.2920 | 799.598 | 355 | 3.33787 | 1.12200 | 0.106324 | 0.755802 | 189 |
| 81.4332 | 800.135 | 386 | 2.94516 | 1.72703 | 9.078069E-02 | 0.658426 | 190 |
| 80.5361 | 801.382 | 365 | 3.23455 | 1.19909 | 0.101897 | 0.729764 | 191 |
| 79.1367 | 798.990 | 333 | 3.54212 | 1.21224 | 0.116679 | 0.812282 | 192 |
| 79.1971 | 797.648 | 340 | 3.44039 | 1.18484 | 0.113114 | 0.787846 | 193 |
| 80.4562 | 799.461 | 375 | 3.51633 | 1.05869 | 0.110912 | 0.792717 | 194 |
| 79.3895 | 798.443 | 330 | 3.26055 | 1.25651 | 0.106759 | 0.745791 | 195 |
| 79.1134 | 798.992 | 331 | 3.77864 | 0.878767 | 0.124292 | 0.865927 | 196 |
| 80.6610 | 800.644 | 373 | 3.24650 | 1.16195 | 0.102016 | 0.731495 | 197 |
| 79.3271 | 799.856 | 359 | 3.92799 | 0.853287 | 0.128433 | 0.898809 | 198 |
| 80.0010 | 798.471 | 361 | 3.57551 | 0.955109 | 0.114915 | 0.812074 | 199 |
| 81.3916 | 799.847 | 425 | 3.00954 | 1.51861 | 9.264000E-02 | 0.672146 | 200 |
| 80.6218 | 799.352 | 352 | 3.41553 | 1.14707 | 0.108183 | 0.771792 | 201 |
| 79.4900 | 797.896 | 345 | 3.56528 | 1.04475 | 0.116352 | 0.814299 | 202 |
| 79.1324 | 798.460 | 349 | 3.13369 | 1.39314 | 0.103117 | 0.718185 | 203 |
| 81.0383 | 800.899 | 374 | 3.50117 | 1.17346 | 0.109071 | 0.786374 | 204 |
| 79.6613 | 798.837 | 366 | 3.32808 | 1.12338 | 0.107775 | 0.758230 | 205 |
| 79.5567 | 799.220 | 335 | 3.03838 | 1.33231 | 9.907503E-02 | 0.694365 | 206 |
| 80.3065 | 799.114 | 357 | 3.67880 | 0.818830 | 0.117223 | 0.833043 | 207 |
| 79.8580 | 797.978 | 310 | 3.58764 | 0.994946 | 0.116497 | 0.817736 | 208 |
| 79.0228 | 799.310 | 350 | 3.56252 | 1.06585 | 0.117163 | 0.816416 | 209 |
| 79.3520 | 798.019 | 344 | 3.64415 | 0.983684 | 0.119272 | 0.833199 | 210 |
| 79.0204 | 799.833 | 340 | 3.36028 | 1.13253 | 0.110416 | 0.769922 | 211 |
| 79.3998 | 798.870 | 343 | 3.70814 | 1.00472 | 0.121270 | 0.848119 | 212 |
| 81.3707 | 800.194 | 350 | 3.54721 | 1.05523 | 0.110066 | 0.795407 | 213 |
| 79.9463 | 800.306 | 353 | 3.35788 | 1.09550 | 0.107626 | 0.762243 | 214 |
| 80.3888 | 800.497 | 362 | 3.61401 | 0.939571 | 0.114282 | 0.816102 | 215 |
| 81.2543 | 800.968 | 383 | 3.64812 | 1.06062 | 0.112691 | 0.816541 | 216 |
| 80.7095 | 800.444 | 361 | 3.58960 | 1.02517 | 0.112913 | 0.809164 | 217 |
| 81.4323 | 798.564 | 385 | 3.16164 | 1.54345 | 9.777223E-02 | 0.707232 | 218 |
| 79.3656 | 799.229 | 324 | 3.60317 | 0.861622 | 0.118100 | 0.824951 | 219 |
| 80.1654 | 799.712 | 363 | 3.65536 | 1.03165 | 0.116251 | 0.826818 | 220 |
| 79.2242 | 797.905 | 343 | 3.20933 | 1.22385 | 0.105071 | 0.733562 | 221 |
| 81.2702 | 800.311 | 385 | 3.40533 | 1.18053 | 0.105259 | 0.762088 | 222 |
| 79.2284 | 797.870 | 344 | 3.29985 | 1.34916 | 0.108524 | 0.755954 | 223 |
| 79.4406 | 798.935 | 344 | 3.42769 | 1.05740 | 0.111769 | 0.782958 | 224 |
| 80.3229 | 797.932 | 333 | 3.76244 | 0.886937 | 0.120252 | 0.852359 | 225 |
| 79.6205 | 798.579 | 352 | 3.22518 | 1.32252 | 0.104597 | 0.734961 | 226 |
| 79.4326 | 798.074 | 318 | 3.51641 | 1.05404 | 0.115266 | 0.804540 | 227 |
| 81.6804 | 800.340 | 391 | 3.51349 | 1.31876 | 0.107525 | 0.783161 | 228 |
| 79.4671 | 798.963 | 347 | 3.66723 | 0.996012 | 0.119504 | 0.837505 | 229 |
| 81.4534 | 798.594 | 371 | 3.52793 | 1.21514 | 0.109198 | 0.789611 | 230 |
| 79.7165 | 798.523 | 328 | 3.28403 | 1.15190 | 0.106620 | 0.748738 | 231 |

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|---|---|---|---|---|---|---|---|
| 78.7985 | 798.746 | 336 | 3.66270 | 0.965585 | 0.121643 | 0.842572 | 232 |
| 81.4772 | 800.775 | 372 | 3.64377 | 1.35335 | 0.112013 | 0.813756 | 233 |
| 79.0832 | 798.901 | 349 | 3.47816 | 1.14040 | 0.114335 | 0.796860 | 234 |
| 79.8900 | 799.863 | 368 | 3.15022 | 1.18135 | 0.100984 | 0.714955 | 235 |
| 81.2905 | 799.162 | 382 | 3.53348 | 1.15566 | 0.109378 | 0.790870 | 236 |
| 80.7618 | 799.342 | 377 | 3.54127 | 1.06677 | 0.110844 | 0.795932 | 237 |
| 80.1118 | 799.524 | 345 | 3.36735 | 1.19181 | 0.107921 | 0.764258 | 238 |
| 80.9408 | 799.325 | 359 | 3.14681 | 1.22495 | 9.863440E-02 | 0.708096 | 239 |
| 79.1356 | 798.789 | 328 | 3.50736 | 0.960634 | 0.115507 | 0.804212 | 240 |
| 80.7579 | 799.585 | 398 | 3.70813 | 0.839229 | 0.116246 | 0.834337 | 241 |
| 79.1603 | 798.997 | 332 | 3.59649 | 1.03047 | 0.118190 | 0.823978 | 242 |
| 81.0895 | 800.603 | 381 | 3.09963 | 1.16117 | 9.643724E-02 | 0.695844 | 243 |
| 79.8203 | 798.605 | 368 | 3.21453 | 1.15040 | 0.103503 | 0.730460 | 244 |
| 81.3525 | 799.177 | 349 | 3.54391 | 1.07371 | 0.110065 | 0.794495 | 245 |
| 81.3642 | 800.198 | 384 | 3.86206 | 0.992819 | 0.119147 | 0.863629 | 246 |
| 79.2889 | 797.130 | 341 | 3.52528 | 1.27606 | 0.116220 | 0.808289 | 247 |
| 79.3975 | 798.263 | 358 | 3.75353 | 0.866843 | 0.122601 | 0.857782 | 248 |
| 81.2892 | 799.203 | 375 | 3.76415 | 0.961508 | 0.116843 | 0.843699 | 249 |
| 79.0588 | 798.736 | 341 | 3.11013 | 1.29991 | 0.102308 | 0.712606 | 250 |
| 79.3782 | 798.732 | 368 | 3.68909 | 0.846432 | 0.120183 | 0.842260 | 251 |
| 81.6681 | 799.103 | 393 | 3.08433 | 1.62805 | 9.466608E-02 | 0.688035 | 252 |
| 79.5458 | 799.551 | 335 | 3.39636 | 1.12455 | 0.110255 | 0.774506 | 253 |
| 80.3981 | 799.447 | 338 | 3.33587 | 1.05232 | 0.105958 | 0.754327 | 254 |
| 81.1805 | 800.984 | 376 | 3.74094 | 1.02938 | 0.115824 | 0.837961 | 255 |
| 79.5490 | 798.783 | 344 | 3.08802 | 1.59631 | 0.100574 | 0.705032 | 256 |
| 81.1094 | 799.474 | 364 | 3.58845 | 1.15558 | 0.111794 | 0.805445 | 257 |
| 81.6114 | 798.573 | 405 | 3.88633 | 0.983959 | 0.119366 | 0.866906 | 258 |
| 79.3365 | 799.391 | 342 | 3.50932 | 1.03028 | 0.114526 | 0.801943 | 259 |
| 81.2206 | 800.994 | 367 | 3.98336 | 0.897204 | 0.123405 | 0.892691 | 260 |
| 80.0120 | 799.815 | 358 | 3.32170 | 1.01118 | 0.106269 | 0.753348 | 261 |
| 79.4219 | 800.379 | 357 | 3.27240 | 1.16729 | 0.106418 | 0.747214 | 262 |
| 81.1911 | 800.727 | 400 | 3.79005 | 0.935294 | 0.117159 | 0.848344 | 263 |
| 81.1918 | 800.517 | 369 | 3.54677 | 1.08541 | 0.109944 | 0.794778 | 264 |
| 80.1036 | 800.869 | 355 | 2.90669 | 1.29654 | 9.279899E-02 | 0.659147 | 265 |
| 79.1926 | 798.593 | 361 | 3.40229 | 1.09514 | 0.111152 | 0.777232 | 266 |
| 79.7686 | 799.417 | 359 | 3.57770 | 1.01880 | 0.115310 | 0.813585 | 267 |
| 80.8700 | 798.875 | 374 | 3.60188 | 1.00894 | 0.112724 | 0.809515 | 268 |
| 78.9957 | 799.077 | 307 | 3.53196 | 1.10005 | 0.116745 | 0.810726 | 269 |
| 79.4258 | 799.589 | 349 | 3.68826 | 1.00619 | 0.119919 | 0.841554 | 270 |
| 79.6299 | 798.626 | 326 | 3.84980 | 0.836860 | 0.125112 | 0.877939 | 271 |
| 81.0572 | 799.024 | 371 | 3.14134 | 1.38384 | 9.777285E-02 | 0.704463 | 272 |
| 79.6138 | 800.462 | 355 | 3.60048 | 0.896583 | 0.116338 | 0.819981 | 273 |
| 79.4337 | 799.031 | 353 | 3.63247 | 0.954256 | 0.118457 | 0.829898 | 274 |
| 80.8742 | 800.030 | 364 | 3.72974 | 0.968282 | 0.117021 | 0.839881 | 275 |
| 80.2866 | 800.036 | 343 | 3.54896 | 1.01610 | 0.112770 | 0.802675 | 276 |
| 79.1307 | 798.259 | 336 | 3.58754 | 0.951674 | 0.117750 | 0.820983 | 277 |
| 80.9352 | 800.472 | 383 | 3.46939 | 0.931145 | 0.108278 | 0.779683 | 278 |
| 80.3775 | 799.955 | 334 | 3.60773 | 0.927312 | 0.114631 | 0.816078 | 279 |
| 81.6058 | 799.826 | 392 | 3.43272 | 1.26998 | 0.105232 | 0.765515 | 280 |
| 79.9458 | 798.230 | 348 | 3.48708 | 1.00536 | 0.112219 | 0.792185 | 281 |
| 80.8849 | 800.371 | 397 | 3.35313 | 1.09446 | 0.104647 | 0.753358 | 282 |
| 80.3698 | 798.090 | 382 | 3.33481 | 1.03164 | 0.105978 | 0.753836 | 283 |
| 80.1669 | 799.653 | 370 | 3.18767 | 1.52366 | 0.101918 | 0.722869 | 284 |
| 79.8164 | 800.286 | 345 | 3.95829 | 0.753893 | 0.127377 | 0.899978 | 285 |
| 79.3575 | 797.815 | 336 | 3.15166 | 1.38365 | 0.103392 | 0.721350 | 286 |
| 81.5232 | 798.847 | 389 | 3.90858 | 0.989315 | 0.120348 | 0.872865 | 287 |
| 78.8892 | 798.636 | 323 | 3.17594 | 1.50941 | 0.105240 | 0.729664 | 288 |
| 80.6531 | 799.520 | 356 | 3.79023 | 0.755483 | 0.119729 | 0.855594 | 289 |
| 81.2618 | 798.082 | 366 | 3.91593 | 0.945654 | 0.121826 | 0.877952 | 290 |
| 79.2082 | 798.270 | 338 | 2.99041 | 1.41987 | 9.802345E-02 | 0.684059 | 291 |
| 80.2802 | 798.519 | 373 | 3.38840 | 0.965823 | 0.107951 | 0.766929 | 292 |
| 81.9410 | 798.845 | 410 | 3.55777 | 1.32509 | 0.108155 | 0.790371 | 293 |
| 81.3760 | 799.214 | 386 | 3.80931 | 0.941303 | 0.117550 | 0.851463 | 294 |

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|---|---|---|---|---|---|---|---|
| 81.1416 | 798.981 | 365 | 3.48223 | 1.11437 | 0.108446 | 0.781204 | 295 |
| 80.6564 | 799.911 | 370 | 3.56650 | 0.930031 | 0.112309 | 0.804071 | 296 |
| 80.1217 | 799.373 | 360 | 3.81851 | 0.818804 | 0.122319 | 0.866625 | 297 |
| 79.2198 | 798.076 | 331 | 3.58508 | 1.13050 | 0.117739 | 0.820613 | 298 |
| 79.2859 | 798.717 | 328 | 3.49327 | 1.17714 | 0.114457 | 0.799170 | 299 |
| 79.4332 | 799.234 | 343 | 3.63324 | 0.973754 | 0.118320 | 0.829469 | 300 |
| 79.1828 | 799.869 | 334 | 3.62983 | 0.918150 | 0.119089 | 0.831426 | 301 |
| 79.2521 | 799.652 | 339 | 3.25018 | 1.20372 | 0.106272 | 0.743282 | 302 |
| 80.8590 | 798.665 | 399 | 3.49622 | 0.933254 | 0.109454 | 0.785872 | 303 |
| 79.2769 | 799.268 | 344 | 3.97771 | 0.886398 | 0.130150 | 0.909873 | 304 |
| 79.3190 | 798.229 | 335 | 3.68277 | 1.01113 | 0.120946 | 0.843453 | 305 |
| 79.5738 | 798.907 | 347 | 3.30029 | 1.21905 | 0.107232 | 0.752828 | 306 |
| 80.9391 | 798.993 | 368 | 3.57931 | 1.08382 | 0.111704 | 0.803484 | 307 |
| 80.6497 | 799.891 | 342 | 3.25589 | 1.17833 | 0.102678 | 0.734354 | 308 |
| 80.7208 | 800.234 | 350 | 3.65477 | 1.02328 | 0.114962 | 0.823641 | 309 |
| 79.7244 | 799.113 | 343 | 3.57532 | 0.934402 | 0.115723 | 0.814448 | 310 |
| 79.5936 | 797.275 | 347 | 3.74463 | 0.898545 | 0.121959 | 0.854349 | 311 |
| 81.2615 | 799.969 | 396 | 3.74746 | 0.943977 | 0.115919 | 0.838876 | 312 |
| 81.4461 | 800.643 | 411 | 3.45148 | 1.23455 | 0.105845 | 0.769954 | 313 |
| 80.2095 | 800.748 | 353 | 3.22170 | 1.25959 | 0.102501 | 0.729383 | 314 |
| 79.3407 | 800.014 | 344 | 3.51909 | 1.14150 | 0.115195 | 0.805705 | 315 |
| 79.7630 | 799.643 | 358 | 3.47248 | 0.990860 | 0.111822 | 0.789435 | 316 |
| 79.3832 | 797.844 | 337 | 3.67260 | 0.888176 | 0.120323 | 0.840132 | 317 |
| 81.1369 | 799.920 | 376 | 3.53598 | 1.14966 | 0.109958 | 0.793215 | 318 |
| 80.0353 | 798.912 | 331 | 3.62184 | 0.946338 | 0.116501 | 0.822916 | 319 |
| 79.2275 | 798.301 | 337 | 3.86222 | 0.884105 | 0.126639 | 0.883629 | 320 |
| 81.3011 | 801.060 | 380 | 3.79704 | 1.08519 | 0.116974 | 0.848700 | 321 |
| 79.2723 | 798.062 | 321 | 3.25228 | 1.40570 | 0.107207 | 0.745867 | 322 |
| 80.4408 | 798.629 | 383 | 3.50115 | 0.984028 | 0.111038 | 0.791042 | 323 |
| 79.3783 | 797.709 | 319 | 3.59510 | 1.13450 | 0.117982 | 0.822643 | 324 |
| 79.1220 | 798.732 | 339 | 3.93759 | 0.831132 | 0.129442 | 0.902047 | 325 |
| 80.8380 | 799.814 | 349 | 3.85393 | 0.835014 | 0.120829 | 0.867224 | 326 |
| 81.0004 | 800.523 | 390 | 3.15160 | 1.29418 | 9.811786E-02 | 0.707494 | 327 |
| 79.4323 | 798.286 | 352 | 3.79743 | 0.894593 | 0.123708 | 0.866693 | 328 |
| 81.2318 | 800.637 | 341 | 3.60708 | 1.09351 | 0.112295 | 0.809945 | 329 |
| 79.2657 | 799.880 | 342 | 3.51496 | 1.18284 | 0.115262 | 0.805121 | 330 |
| 79.2960 | 799.027 | 326 | 3.35429 | 1.09834 | 0.109885 | 0.767482 | 331 |
| 79.5123 | 797.840 | 353 | 3.12267 | 1.38468 | 0.101592 | 0.712154 | 332 |
| 81.2865 | 800.743 | 392 | 3.41845 | 1.20338 | 0.105526 | 0.764807 | 333 |
| 80.1590 | 799.981 | 354 | 3.59710 | 0.930003 | 0.114806 | 0.815224 | 334 |
| 78.9951 | 799.337 | 321 | 4.00837 | 0.834161 | 0.132089 | 0.919094 | 335 |
| 79.0215 | 799.404 | 350 | 3.74080 | 1.00796 | 0.122958 | 0.857059 | 336 |
| 81.5573 | 801.298 | 384 | 4.17066 | 0.932124 | 0.127708 | 0.930177 | 337 |
| 81.5380 | 799.584 | 384 | 3.44212 | 1.23070 | 0.106030 | 0.769282 | 338 |
| 79.4893 | 797.929 | 351 | 3.33582 | 1.10438 | 0.108937 | 0.762261 | 339 |
| 79.7127 | 799.025 | 360 | 3.45592 | 1.05816 | 0.111477 | 0.785942 | 340 |
| 79.5111 | 797.649 | 364 | 3.15568 | 1.37718 | 0.102513 | 0.719108 | 341 |
| 81.0694 | 799.390 | 367 | 3.37573 | 1.13727 | 0.105246 | 0.757887 | 342 |
| 81.0339 | 800.806 | 393 | 3.45145 | 1.21378 | 0.107176 | 0.773937 | 343 |
| 79.1269 | 798.758 | 320 | 3.30345 | 1.25473 | 0.109015 | 0.757984 | 344 |
| 79.6456 | 801.542 | 373 | 3.45659 | 1.07726 | 0.111019 | 0.785523 | 345 |
| 80.5815 | 800.527 | 377 | 3.65061 | 1.02365 | 0.114725 | 0.822272 | 346 |
| 81.0898 | 799.665 | 389 | 3.45800 | 1.21049 | 0.107570 | 0.775650 | 347 |
| 78.9901 | 798.264 | 341 | 3.61089 | 1.00903 | 0.119231 | 0.828498 | 348 |
| 80.8235 | 799.390 | 370 | 3.14170 | 1.25768 | 9.858922E-02 | 0.707162 | 349 |
| 81.1486 | 799.793 | 401 | 3.57061 | 1.08926 | 0.110725 | 0.799868 | 350 |
| 80.9147 | 799.207 | 349 | 3.80152 | 0.941734 | 0.119362 | 0.855854 | 351 |
| 79.2976 | 797.490 | 324 | 3.63752 | 0.813996 | 0.119629 | 0.833130 | 352 |
| 79.0439 | 800.276 | 346 | 3.08674 | 1.66889 | 0.101616 | 0.708211 | 353 |
| 78.7478 | 798.535 | 350 | 3.71878 | 1.00941 | 0.123271 | 0.854502 | 354 |
| 78.6675 | 799.372 | 330 | 3.84293 | 1.05931 | 0.127797 | 0.884418 | 355 |
| 80.9857 | 798.739 | 355 | 3.45623 | 1.20098 | 0.108226 | 0.776979 | 356 |
| 81.0917 | 797.428 | 376 | 3.65590 | 1.11378 | 0.114158 | 0.820304 | 357 |

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|---|---|---|---|---|---|---|---|
| 79.2743 | 798.258 | 352 | 2.63526 | 1.76513 | 8.617473E-02 | 0.602319 | 358 |
| 80.6310 | 801.281 | 387 | 3.76107 | 0.829407 | 0.117648 | 0.845882 | 359 |
| 80.6472 | 800.255 | 340 | 3.98255 | 0.686000 | 0.125874 | 0.899482 | 360 |
| 78.7075 | 799.334 | 342 | 3.58906 | 1.03969 | 0.118815 | 0.824425 | 361 |
| 81.4506 | 801.132 | 373 | 3.77913 | 1.01400 | 0.116345 | 0.844973 | 362 |
| 79.9660 | 799.636 | 367 | 3.24232 | 1.11116 | 0.103848 | 0.735653 | 363 |
| 79.0202 | 798.369 | 348 | 3.77243 | 0.963892 | 0.124232 | 0.864593 | 364 |
| 80.0216 | 799.107 | 333 | 3.62867 | 0.864698 | 0.116503 | 0.823799 | 365 |
| 78.9334 | 798.879 | 340 | 3.44349 | 1.25273 | 0.113815 | 0.790559 | 366 |
| 81.0987 | 800.603 | 379 | 3.44612 | 1.27229 | 0.106777 | 0.771829 | 367 |
| 81.2033 | 800.545 | 355 | 3.46621 | 1.18232 | 0.107494 | 0.776883 | 368 |
| 79.7221 | 799.352 | 335 | 3.81400 | 0.895538 | 0.123545 | 0.869149 | 369 |
| 80.6555 | 799.148 | 380 | 3.39053 | 1.10218 | 0.106366 | 0.762575 | 370 |
| 78.7669 | 798.151 | 331 | 3.41421 | 1.24930 | 0.113542 | 0.785454 | 371 |
| 81.1517 | 800.500 | 377 | 3.59729 | 1.04808 | 0.111679 | 0.806679 | 372 |
| 79.9921 | 799.711 | 361 | 3.55021 | 1.03149 | 0.113760 | 0.805680 | 373 |
| 81.3150 | 798.952 | 393 | 3.29678 | 1.22453 | 0.102164 | 0.738287 | 374 |
| 81.2033 | 799.895 | 389 | 3.81368 | 0.943056 | 0.117935 | 0.853348 | 375 |
| 79.4317 | 798.340 | 344 | 3.25200 | 1.29882 | 0.106284 | 0.743362 | 376 |
| 81.0871 | 800.190 | 386 | 3.07291 | 1.33719 | 9.569345E-02 | 0.689920 | 377 |
| 80.7041 | 799.853 | 351 | 3.35052 | 1.02702 | 0.105500 | 0.755355 | 378 |
| 79.8993 | 800.043 | 372 | 3.18535 | 1.23769 | 0.102069 | 0.722924 | 379 |
| 79.6741 | 797.823 | 343 | 3.57633 | 0.985839 | 0.116005 | 0.814762 | 380 |
| 79.2309 | 799.619 | 334 | 3.03671 | 1.63858 | 9.955765E-02 | 0.695234 | 381 |
| 81.0933 | 798.674 | 376 | 3.04431 | 1.22508 | 9.478719E-02 | 0.682843 | 382 |
| 81.0421 | 801.849 | 393 | 3.45035 | 1.01765 | 0.107089 | 0.774065 | 383 |
| 78.8266 | 798.614 | 332 | 3.36154 | 1.32909 | 0.111297 | 0.771976 | 384 |
| 79.1262 | 798.878 | 345 | 3.45557 | 1.23412 | 0.113762 | 0.792341 | 385 |
| 81.0720 | 801.836 | 347 | 3.27256 | 1.24546 | 0.102012 | 0.735621 | 386 |
| 81.0908 | 798.699 | 381 | 3.48026 | 1.10446 | 0.108605 | 0.781507 | 387 |
| 78.9021 | 797.811 | 327 | 2.95920 | 1.81740 | 9.826081E-02 | 0.680292 | 388 |
| 80.6582 | 799.541 | 364 | 3.58026 | 0.961846 | 0.112983 | 0.807879 | 389 |
| 80.4361 | 800.499 | 368 | 2.97027 | 1.55350 | 9.372170E-02 | 0.670039 | 390 |
| 80.1814 | 799.954 | 355 | 3.73533 | 0.922870 | 0.119280 | 0.846737 | 391 |
| 80.5708 | 799.112 | 375 | 3.99582 | 0.695227 | 0.125970 | 0.900732 | 392 |
| 80.5809 | 800.441 | 367 | 3.20708 | 1.17085 | 0.100767 | 0.722272 | 393 |
| 79.3793 | 799.676 | 361 | 3.28693 | 1.26633 | 0.106941 | 0.750233 | 394 |
| 79.0583 | 798.121 | 345 | 3.20027 | 1.43985 | 0.105276 | 0.732970 | 395 |
| 81.2613 | 799.415 | 381 | 3.29455 | 1.18138 | 0.102215 | 0.738297 | 396 |
| 79.4678 | 798.251 | 349 | 3.65003 | 0.999270 | 0.119021 | 0.833531 | 397 |
| 80.0297 | 799.310 | 366 | 3.79158 | 0.926263 | 0.121387 | 0.859919 | 398 |
| 79.3972 | 798.915 | 333 | 3.74491 | 0.896974 | 0.122166 | 0.855350 | 399 |
| 80.2300 | 799.621 | 337 | 3.55744 | 0.984495 | 0.113458 | 0.805722 | 400 |
| 79.1405 | 797.996 | 326 | 3.80963 | 0.899794 | 0.125487 | 0.873095 | 401 |
| 80.7870 | 799.563 | 367 | 3.35381 | 1.10226 | 0.105101 | 0.754405 | 402 |
| 78.8408 | 799.400 | 337 | 3.26306 | 1.36312 | 0.108206 | 0.750458 | 403 |
| 80.4016 | 799.503 | 355 | 3.22256 | 1.28221 | 0.102117 | 0.727932 | 404 |
| 81.7778 | 799.582 | 402 | 3.46931 | 1.34924 | 0.105871 | 0.772101 | 405 |
| 79.8500 | 798.853 | 348 | 3.35397 | 0.991938 | 0.108098 | 0.762622 | 406 |
| 78.9041 | 798.563 | 329 | 3.72719 | 1.01928 | 0.123188 | 0.855340 | 407 |
| 79.4386 | 798.884 | 352 | 3.35841 | 1.00839 | 0.109255 | 0.766311 | 408 |
| 79.4297 | 797.088 | 333 | 3.93463 | 0.781063 | 0.128986 | 0.899974 | 409 |
| 79.8599 | 799.000 | 351 | 3.31258 | 0.990340 | 0.106832 | 0.753528 | 410 |
| 79.0752 | 797.728 | 341 | 3.07962 | 1.48817 | 0.101565 | 0.706128 | 411 |
| 81.6095 | 798.518 | 400 | 3.66919 | 1.13950 | 0.112822 | 0.818927 | 412 |
| 80.7929 | 799.691 | 383 | 3.01376 | 1.32181 | 9.407375E-02 | 0.676664 | 413 |
| 80.2028 | 799.029 | 360 | 2.83350 | 1.52545 | 9.024112E-02 | 0.641212 | 414 |
| 78.9476 | 798.739 | 353 | 3.40643 | 1.06690 | 0.112221 | 0.780933 | 415 |
| 79.3393 | 797.429 | 323 | 3.61762 | 1.10231 | 0.119295 | 0.829685 | 416 |
| 80.1468 | 799.402 | 333 | 3.92178 | 0.842853 | 0.125469 | 0.889178 | 417 |
| 81.0297 | 801.174 | 396 | 3.73822 | 1.00494 | 0.116000 | 0.838125 | 418 |
| 81.6006 | 799.081 | 387 | 3.53077 | 1.19918 | 0.108614 | 0.788375 | 419 |
| 81.3259 | 799.956 | 395 | 3.33634 | 1.19255 | 0.103000 | 0.746162 | 420 |

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|---|---|---|---|---|---|---|---|
| 80.9031 | 799.877 | 383 | 3.90707 | 0.892679 | 0.121798 | 0.876991 | 421 |
| 79.4525 | 797.116 | 356 | 3.51893 | 1.06136 | 0.114809 | 0.803153 | 422 |
| 79.1000 | 799.123 | 334 | 3.42294 | 1.21876 | 0.112709 | 0.784874 | 423 |
| 80.0557 | 799.797 | 365 | 3.90291 | 0.752946 | 0.125135 | 0.886320 | 424 |
| 80.7325 | 800.227 | 357 | 3.61930 | 0.827314 | 0.113698 | 0.815333 | 425 |
| 79.3102 | 798.109 | 349 | 3.39280 | 1.01298 | 0.111081 | 0.775917 | 426 |
| 81.1044 | 800.533 | 379 | 3.51436 | 1.03728 | 0.109021 | 0.787695 | 427 |
| 79.9826 | 799.666 | 353 | 3.42264 | 1.06261 | 0.109786 | 0.777025 | 428 |
| 80.5106 | 800.060 | 357 | 3.30162 | 1.26881 | 0.104465 | 0.745740 | 429 |
| 79.1371 | 798.517 | 335 | 3.81234 | 0.953149 | 0.125401 | 0.873466 | 430 |
| 79.5594 | 797.859 | 347 | 3.41990 | 1.07876 | 0.111254 | 0.780061 | 431 |
| 78.9627 | 798.751 | 332 | 3.45416 | 1.30704 | 0.114161 | 0.792928 | 432 |
| 81.1996 | 799.258 | 385 | 3.41440 | 1.15035 | 0.106068 | 0.765407 | 433 |
| 80.6271 | 800.520 | 328 | 3.24655 | 1.13081 | 0.102682 | 0.733411 | 434 |
| 79.9134 | 798.978 | 355 | 3.35523 | 1.04274 | 0.108115 | 0.763061 | 435 |
| 80.1549 | 799.157 | 336 | 3.49024 | 0.996936 | 0.111891 | 0.792167 | 436 |
| 80.2205 | 798.433 | 365 | 3.52329 | 0.948676 | 0.112170 | 0.796915 | 437 |
| 79.9092 | 800.220 | 369 | 3.39665 | 0.989284 | 0.108834 | 0.770932 | 438 |
| 80.2168 | 799.198 | 382 | 3.32258 | 1.05154 | 0.105541 | 0.751089 | 439 |
| 79.0606 | 797.824 | 342 | 3.19696 | 1.17032 | 0.105193 | 0.732207 | 440 |
| 80.9116 | 799.543 | 367 | 3.38825 | 1.04690 | 0.106050 | 0.761964 | 441 |
| 79.0237 | 798.633 | 345 | 3.50422 | 1.14006 | 0.115551 | 0.803764 | 442 |
| 79.1092 | 797.623 | 335 | 3.14461 | 1.38932 | 0.103787 | 0.721226 | 443 |
| 81.5697 | 799.232 | 383 | 4.21192 | 0.784281 | 0.129487 | 0.940192 | 444 |
| 80.1923 | 798.471 | 378 | 3.38935 | 1.00555 | 0.108129 | 0.767427 | 445 |
| 79.7723 | 800.120 | 323 | 3.46071 | 0.970544 | 0.111960 | 0.788481 | 446 |
| 80.5023 | 798.414 | 361 | 3.37474 | 1.07381 | 0.106958 | 0.762267 | 447 |
| 79.1584 | 799.283 | 335 | 3.78945 | 1.04731 | 0.124584 | 0.868471 | 448 |
| 80.9848 | 800.521 | 386 | 3.37439 | 1.24823 | 0.105123 | 0.757635 | 449 |
| 79.8143 | 799.750 | 330 | 3.26945 | 1.22307 | 0.105548 | 0.744092 | 450 |
| 81.1679 | 800.819 | 382 | 3.36185 | 1.19536 | 0.104007 | 0.752755 | 451 |
| 81.7593 | 799.266 | 426 | 3.43656 | 1.28875 | 0.104783 | 0.764348 | 452 |
| 80.0595 | 799.027 | 357 | 3.76879 | 0.882970 | 0.120643 | 0.854660 | 453 |
| 79.8068 | 799.041 | 363 | 3.11964 | 1.30410 | 0.100660 | 0.709837 | 454 |
| 80.9588 | 799.804 | 381 | 3.27457 | 1.15915 | 0.102103 | 0.735234 | 455 |
| 79.3434 | 799.374 | 347 | 3.32436 | 1.20648 | 0.108688 | 0.760364 | 456 |
| 78.9267 | 800.047 | 311 | 3.53235 | 1.06849 | 0.116923 | 0.811798 | 457 |
| 78.8887 | 799.909 | 314 | 3.54055 | 1.42866 | 0.117488 | 0.814502 | 458 |
| 79.1966 | 798.074 | 341 | 3.23279 | 1.34848 | 0.106238 | 0.740335 | 459 |
| 79.5484 | 798.809 | 341 | 3.48758 | 0.921918 | 0.113301 | 0.795343 | 460 |
| 79.9355 | 798.879 | 356 | 3.50009 | 0.915136 | 0.112660 | 0.795589 | 461 |
| 79.5448 | 798.963 | 346 | 3.23527 | 1.20631 | 0.105172 | 0.738110 | 462 |
| 81.0851 | 799.063 | 388 | 3.92408 | 0.892786 | 0.122076 | 0.879978 | 463 |
| 80.9768 | 798.857 | 381 | 3.33640 | 1.17731 | 0.104479 | 0.750307 | 464 |
| 81.4429 | 800.487 | 372 | 3.81164 | 1.06601 | 0.117631 | 0.852794 | 465 |
| 79.4385 | 797.517 | 343 | 3.58697 | 1.02360 | 0.117274 | 0.819656 | 466 |
| 81.3308 | 800.586 | 385 | 3.70276 | 1.11763 | 0.114384 | 0.828684 | 467 |
| 81.0310 | 800.684 | 371 | 3.54268 | 1.30459 | 0.110166 | 0.794799 | 468 |
| 79.6134 | 799.041 | 333 | 3.46522 | 1.02784 | 0.112714 | 0.790920 | 469 |
| 78.7475 | 799.625 | 330 | 3.48838 | 1.21024 | 0.115724 | 0.802230 | 470 |
| 79.0905 | 799.542 | 356 | 3.74468 | 0.867944 | 0.122743 | 0.857099 | 471 |
| 78.7120 | 799.989 | 341 | 3.28717 | 1.24733 | 0.108945 | 0.755791 | 472 |
| 81.6363 | 799.599 | 400 | 3.60943 | 1.03404 | 0.110597 | 0.804778 | 473 |
| 79.2445 | 798.281 | 328 | 3.46092 | 1.19313 | 0.113879 | 0.793143 | 474 |
| 79.3903 | 798.797 | 367 | 3.17682 | 1.42168 | 0.103587 | 0.725598 | 475 |
| 79.6558 | 798.659 | 358 | 3.55010 | 1.07510 | 0.115057 | 0.808890 | 476 |
| 81.2648 | 801.893 | 398 | 3.50008 | 1.20489 | 0.107867 | 0.782929 | 477 |
| 79.2002 | 798.179 | 340 | 3.40821 | 1.05364 | 0.111930 | 0.780367 | 478 |
| 80.3517 | 800.132 | 382 | 3.18020 | 1.28707 | 0.100545 | 0.717853 | 479 |
| 79.2299 | 798.931 | 351 | 3.68218 | 0.988438 | 0.120240 | 0.841224 | 480 |
| 79.3474 | 799.410 | 338 | 3.50940 | 1.07175 | 0.114676 | 0.802413 | 481 |
| 79.2907 | 797.832 | 338 | 3.61943 | 1.29518 | 0.118836 | 0.828453 | 482 |
| 80.3695 | 799.702 | 371 | 3.94721 | 0.824005 | 0.125253 | 0.892442 | 483 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 80.6554 | 800.760 | 349 | 3.94831 | 0.803779 | 0.124404 | 0.890676 | 484 |
| 79.2522 | 799.895 | 344 | 3.37891 | 1.16644 | 0.110809 | 0.774079 | 485 |
| 81.4727 | 799.340 | 386 | 3.21776 | 1.45687 | 9.928988E-02 | 0.719420 | 486 |
| 80.3845 | 798.911 | 343 | 3.26233 | 1.18222 | 0.103644 | 0.737549 | 487 |
| 79.9768 | 799.515 | 359 | 3.58749 | 0.924636 | 0.115200 | 0.814954 | 488 |
| 81.2791 | 799.591 | 397 | 3.66608 | 1.07796 | 0.113404 | 0.820533 | 489 |
| 81.0803 | 800.646 | 385 | 3.39049 | 1.15636 | 0.105308 | 0.760469 | 490 |
| 80.0694 | 800.645 | 348 | 3.26363 | 1.27675 | 0.104382 | 0.740426 | 491 |
| 81.2979 | 800.465 | 376 | 3.37366 | 1.12937 | 0.104534 | 0.756077 | 492 |
| 80.9854 | 800.178 | 363 | 3.59515 | 1.12044 | 0.112249 | 0.807909 | 493 |
| 78.9428 | 799.643 | 355 | 3.61705 | 0.974909 | 0.118987 | 0.829096 | 494 |
| 79.0115 | 799.279 | 333 | 3.81745 | 0.851071 | 0.125639 | 0.874952 | 495 |
| 81.4317 | 798.331 | 406 | 3.66311 | 0.993203 | 0.113023 | 0.818486 | 496 |
| 81.0048 | 800.026 | 372 | 3.42858 | 1.18312 | 0.106611 | 0.768799 | 497 |
| 79.0539 | 798.444 | 325 | 3.43988 | 1.23858 | 0.113469 | 0.788877 | 498 |
| 79.0262 | 798.720 | 335 | 3.40804 | 1.12155 | 0.112346 | 0.781563 | 499 |
| 79.7364 | 797.962 | 339 | 3.60389 | 1.08535 | 0.117128 | 0.821964 | 500 |

average tau =    80.1321   sigma tau =    0.877687 average red chisq =    1.09949
average amp =    799.267   sigma amp =    1.00279
the squared ratio of sigma tau for the two data sets =   19.7766